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GRADUATE BULLETIN

1968

1969

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1968

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6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

TABLE OF CONTENTS

Page No.

CALENDAR 5

PART ONE — THE GENERAL ADMINISTRATION 9

PART TWO — THE GRADUATE SCHOOL 29

PART THREE - ADMISSION REQUIREMENTS AND PROCEDURES 32
FINANCIAL INFORMATION 36

PART FOUR - GENERAL ACADEMIC REGULATIONS AND REQUIREMENTS 41

PART FIVE - DEPARTMENTAL REQUIREMENTS AND DESCRIPTION OF NUMBERED COURSES 50

College of Arts and Sciences 51

Biology 51

Chemistry 62

Communication 66

Computer Science and Statistics 69

English and Literature 71

Foreign Languages 74

Geography and Geology 76

History 81

Mathematics 86

Physics and Astronomy 92

Political Science 94

Religion and Philosophy 99

Science Education 102

Sociology 105

Speech and Hearing Sciences 107

School of Business Administration 111

Accounting 113

Economics 114

Finance 117

Management 118

Marketing 119

School of Education and Psychology 120
Business Education 122
Educational Administration, Supervision, and Curriculum 126
Educational Foundations 133
Elementary Education 135
Elementary Education—Reading 141
Guidance 144
Health, Physical Education, and Recreation 149
Industrial Arts 154
Library Science 155
Psychology 157
Science Education 167
Secondary Education 170

School of Fine Arts 173
Art 173
Music 173
Music Education 179
Theatre 182

Division of Home Economics 185
Child Development 187
Clothing and Textiles 187
Food and Nutrition 188
Home Economics Education 189
Housing and Home Management 190
Marriage and Family Life 191

PART SIX - REGISTER 192

INDEX 206

CALENDAR

GENERAL CALENDAR 1968-1969

FALL QUARTER - 1968

Saturday, August 10, 1968
Graduate Record Examination

Friday, August 23,
Deadline for making application for admission

Thursday and Friday, September 5 and 6
Various pre-quarter faculty and departmental meetings (faculty on duty)

Sunday, September 8
Dormitories open for freshman and transfer students

Monday and Tuesday, September 9 and 10
8:00 A.M. Orientation for freshman and transfer students

Tuesday, September 10
Dormitories open for former students
5:00 P.M. Registration for night and graduate courses
7:00 P.M. Tuesday night classes meet

Wednesday, September 11
Registration by appointment

Thursday, September 12
Continuation of registration by appointment
Last day to register without late registration fee

Friday and Saturday, September 13 and 14
8:00 A.M. Classes meet on schedule (Saturday classes meet on Monday schedule)

Friday, September 13
8:00 A.M. Fee for adding and dropping courses effective

Friday, September 20
Last day for registering or adding Fall Quarter courses

Wednesday, September 25
Last day for dropping courses without academic penalty

Friday and Saturday, October 11 and 12
Qualifying and Comprehensive Examinations

Saturday, October 19
Miller Analogies Test

Monday, October 21
Beginning of second term of Fall Quarter - - only date for adding second term courses without penalty

Thursday, October 24, 1968
English Proficiency Examination

Saturday, October 26
Graduate Record Examination

Friday, November 8
Foreign Language Examination

Saturday, November 9
National Teacher Examination

Wednesday, Thursday, Friday, Saturday, November 20, 21, 22, 23
Fall Quarter Examinations

WINTER QUARTER - 1968-1969

Tuesday, November 12, 1968
Deadline for making application for admission for the Winter Quarter

Monday, December 2
5:00 P.M. Registration for night and graduate courses
7:00 P.M. Monday night classes meet

Tuesday, December 3
Registration by appointment

Wednesday, December 4
Continuation of registration by appointment
Last day of registration without late fee

Thursday and Friday, December 5 and 6
8:00 A.M. Classes meet on schedule
Fee for adding and dropping courses effective on Thursday, December 5

Thursday, December 12
Last day for registering or adding Winter Quarter courses

Saturday, December 14
Graduate Record Examination
Miller Analogies Test

Wednesday, December 18
Last day for dropping courses without academic penalty

Friday, December 20
6:00 P.M. Christmas holidays begin

Monday, January 6, 1969
8:00 A.M. Class work resumes

Friday and Saturday, January 10 and 11
Qualifying and Comprehensive Examinations

Saturday, January 18
Graduate Record Examination

Wednesday, January 22
8:00 A.M. Beginning of second term of Winter Quarter - - only date for adding second term courses without penalty

Thursday, January 30
English Proficiency Examination

Saturday, February 1
National Teacher Examination

Friday, February 14
Foreign Language Examination

Wednesday, Thursday, Friday, Saturday, February 26, 27, 28, and March 1
Winter Quarter Examinations

Saturday, March 1
Last day to file application for May graduation

SPRING QUARTER - 1969

Tuesday, February 18, 1969
Deadline for making application for admission for the Spring Quarter

Monday, March 10
5:00 P.M. Registration for night and graduate courses
7:00 P.M. Monday night classes meet

Tuesday, March 11
Registration by appointment

Wednesday, March 12
Continuation of registration by appointment
Last day to register without late fee

Thursday, Friday, Saturday, March 13, 14, and 15
8:00 A.M. Classes meet on schedule. (Saturday classes meet on Monday schedule)
Fee for adding and dropping courses effective on Thursday, March 13

Saturday, March 15
Miller Analogies Test

Thursday, March 20
Last day for registering or adding Spring Quarter courses

Tuesday, March 25
Last day for dropping courses without academic penalty

Sunday, March 30
University of Southern Mississippi Day

Thursday, April 3
6:00 P.M. Easter holidays begin (Thursday night and Saturday morning classes will meet)

Tuesday, April 8
8:00 A.M. Class work resumes

Saturday, April 12
National Teacher Examination

Friday and Saturday, April 18 and 19
Qualifying and Comprehensive Examinations

Monday, April 21
Beginning of second term of Spring Quarter - only date for adding second term courses

Thursday, April 24
English Proficiency Examination

Friday, April 25
Last day to present signed theses and dissertations to the Dean of the Graduate School for May graduation

Saturday, April 26
Graduate Record Examination

Tuesday, May 6
Honors Day Convocation

Friday, May 9
Foreign Language Examination

Wednesday, Thursday, Friday, Saturday, May 21, 22, 23, and 24
Spring Quarter Examinations

Saturday, May 24
7:30 P.M. Graduation Exercises
Last day to file degree application for August graduation

SUMMER QUARTER - 1969

Tuesday, May 20
Deadline for making application for admission for the Summer Quarter

Monday, June 9
8:00 A.M. Orientation for freshman and transfer students
5:00 P.M. Registration for night and graduate courses
7:00 P.M. Monday night classes meet

Tuesday, June 10
8:00 A.M. Registration by appointment
Only date to register for Summer Quarter without late fee

Wednesday, June 11
8:00 A.M. Classes meet as scheduled

Friday, June 13
Last day for registering or adding first term courses

Tuesday, June 17
Last day for dropping first term courses

Wednesday, June 18
Last day for registering or adding full quarter courses

Tuesday, June 24
Deadline for making application for admission for the second term of the Summer Quarter
Last day for dropping full quarter courses

Friday, July 4
Independence Day holiday

Friday, July 11
First term examinations
Foreign Language Examination

Saturday, July 12
Graduate Record Examination

Monday, July 14
8:00 A.M. Registration for second term of Summer Quarter
Second term courses may be added without change of schedule fee

Wednesday, July 16
Last day for registering or adding second term courses

Thursday, July 17
English Proficiency Examination

Friday and Saturday, July 18 and 19
Qualifying and Comprehensive Examinations

Friday, July 18
Last day for dropping second term courses.
Last day to present signed thesis and dissertations to the Dean of the Graduate School for August graduation

Saturday, July 19
National Teacher Examination

Wednesday, Thursday, Friday, Saturday, August 13, 14, 15, and 16
Summer Quarter Examinations

Saturday, August 16
Graduation Exercises

PART ONE

GENERAL ADMINISTRATION

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ADMINISTRATIVE OFFICERS

THE GRADUATE COUNCIL

THE GRADUATE FACULTY

GRADUATE FELLOWS

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[2]VIRGINIA ISABELLE FELDER, A.B., M.S., Ed.D.—Professor of Mathematics
A.B., Mississippi State College for Women; M.S., Tulane University; Ed.D. Columbia University.

CLAUDE EDWIN FIKE, A.B., A.M., Ph.D.—Dean of the College of Arts and Sciences and Professor of History
A.B., Duke University; A.M., Columbia University; Ph.D., University of Illinois.

DAVID BARON FOLTZ, B.M., M.M., Mus.D.—Chairman of Department of Music and Professor of Music
B.M., M.M., Illinois Wesleyan University; Mus. D., Texas Wesleyan College.

BERTHA MAUDE FRITZSCHE, B.S., M.S., Ph.D.—Professor of Home Economics
B.S., M.S. Iowa State University; Ph.D., The Ohio State University.

JEWEL GOLDEN, B.S., M.A., Ph.D.—Professor of Home Economics
B.S., Auburn University; M.A., Columbia University; Ph.D., Florida State University.

JOHN EDMOND GONZALES, B.S., M.A., Ph.D.—Professor of History
B.S., M.A., Louisiana State University; Ph.D., University of North Carolina.

LENA YARBROUGH GOUGH, A.B., M.A., Ph.D.—Professor of Psychology
A.B., Alabama College; M.A., George Peabody College; Ph.D., University of Alabama.

WILLIAM TURNER GOWER, B.Mus., M.Mus., M.F.A., Ph.D.—Chairman of Department of Music Education and Professor of Music Education
B.Mus., M.Mus., University of Denver; M.F.A., Ph.D., University of Iowa.

JOSEPH ARTHUR GREENE, JR., B.A., M.A., Ph.D.—Dean of the School of Business Administration and Professor of Economics
B.A., Berea College; M.A., Ph.D., University of Virginia.

KENNETH RENO GRUBBS, B. S., M.S., Ph.D.—Chairman of Department of Economics and Professor of Economics
B.S., M.S., North Texas State University; Ph.D., University of Texas.

ERIC McCOY GUNN, B.S., M.A., Ed.D.—Chairman of Department of Secondary Education and Professor of Education
B.S., M.A., University of Southern Mississippi; Ed.D., George Peabody College.

GORDON GUNTER, A.B., M.A., Ph.D.—Professor of Biology
A.B., Northwestern State College of Louisiana; M.A., Ph.D., University of Texas.

RECTOR ROEMILT HARDIN, B.A., M.A., C.L.U., Ph.D.—Coordinator of Graduate Studies in Business Administration and Professor of Finance
B.A., Berea College; M.A., Ph.D., Duke University; C.L.U., The American College of Life Underwriters; post-doctoral study, Harvard University.

ANTONIO EFTHEMIOS HARRISES, A. B., M.S., Ph.D.—Professor of Biology
A.B., Saint Anslem's College; M. S., University of New Hampshire; Ph.D., University of Notre Dame.

GILBERT FREDERICK HARTWIG, Ph.B., M.A., Ph.D.—Professor of Theatre
Ph.B., M.A., Marquette University; Ph.D., University of Wisconsin.

WILLIAM HAMILTON HATCHER, B.A., M.A., Ph.D.—Chairman of Department of Political Science and Professor of Political Science
B.A., M.A., University of Arkansas; Ph.D., Duke University.

ARTHELL KELLEY, B.S., M.A., Ph.D.—Chairman of Department of Geography and Geology, and Professor of Geography
B.S., University of Southern Mississippi; M.A., University of Missouri; Ph.D., University of Nebraska.

SHERIFF L. KNIGHT, B.A., M.A., Ed.D.—Professor of Education and Director of The Film Library
B.A., Southwestern at Memphis; M.A., University of Southern Mississippi; Ed.D., Indiana University.

NORVIN LAWRENCE LANDSKOV, B.A., M.A., Ph.D.—Professor of Education
B.A., St. Olaf College; M.A., Ph.D., University of Minnesota.

CHARLES ELMER LANE, JR., B.S., Ph.D.—Chairman of Department of Chemistry and Professor of Chemistry
B.S., Ph.D., University of Chicago.

WALTER JAMES LOK, B.Des., M.Des, Ph.D. — Chairman of Department of Art and Professor of Art
B.Des., M.Des., University of Michigan; PhD., University of Alabama.

JAMES SCOTT LONG, B.S. in Ch.E., M.S., Ph.D. — Research Professor Emeritus
B.S. in Ch.E., M.S., Lehigh University; Ph.D., The Johns Hopkins University.

CLARENCE EDWARD McCARVER, A.B., B.S., M.A., Ed.D. — Chairman of Department of Health, Physical Education, and Recreation and Professor of Health and Physical Education
A.B., Howard Payne College; B.S., M.A., George Washington University; Ed.D., University of Texas.

JAMES HAROLD McPHAIL, B.S., M.Ed., Ed.D. — Professor of Education
B.S., M.Ed., University of Southern Mississippi; Ed.D., Boston University.

CARLTON LAMAR McQUAGGE, B.S., M.A., Ed.D. — Dean of School of Education and Psychology and Professor of Educational Administration
B.S., University of Southern Mississippi; M.A., University of Mississppi; Ed.D., University of Texas.

JAMES HOWARD MAILEY, B.S., M.A., Ph.D. — Chairman of Department of Educational Administration and Professor of Educational Administration
B.S., Western Montana College of Education; M.A., Ph.D., University of Chicago.

RAYMOND MANNONI, B.S., B.M., M.M.Ed., Ed.D. — Dean of School of Fine Arts and Professor of Music
B.S., Kansas State College; B.M., University of Michigan; M.M.Ed., Northwestern University; Ed.D., Chicago Musical College; study, U.S. Navy School of Music, University of Chicago, Kansas University.

JESSE LLOYD MILAM, B.A., M.A., Ed.D. — Professor of Health and Physical Education
B.A., Louisiana Polytechnic Institute; M.A., Ed.D., Columbia University.

LEO REYNOLDS MILLER, B.S.Ed., M.S.Ed., Ed.D. — Professor of Elementary Education
B.S.Ed., Kansas City, Missouri Teachers College; M.S.Ed., University of Kansas; Ed.D., The Pennsylvania State University.

CHARLES WICKLIFFE MOORMAN, A.B., M.A., Ph.D. — Chairman of Department of English and Literature and Professor of English and Literature
A.B., Kenyon College; M.A., Ph.D., Tulane University; Guggenheim Fellow.

RAY SIGLER MUSGRAVE, B.A., M.A., Ph.D. — Chairman of Department of Psychology and Professor of Psychology
B.A., Bethany College; M.A., Ohio Wesleyan University; Ph.D., Syracuse University; post-doctoral study, University of Cincinnati, Columbia University.

[1]JOHN FREDERICK NAU, B.D., M.A., Ph.D. — Chairman of Department of Religion and Philosophy and Professor of Religion and Philosophy
B.D., Concordia Seminary; M.A., Tulane University; Ph.D., University of South Carolina.

HOWARD CARROLL NESBITT, B.A., M.A., Ed.D. — Professor of Health and Physical Education
B.A., Washington College; M.A., Ed.D., Columbia University.

LINWOOD ELDEN ORANGE, A.B., M.A., Ph.D. — Professor of English and Literature
A.B., M.A., Ph.D., Duke University.

RALPH SEER OWINGS, A.B., M.A., Ed.D. — Dean of the Graduate School and Professor of Educational Administration
A.B., M.A., Wofford College; M.A., Ed.D., Columbia University.

ROBERT WILLIAM PETERS, B.A., M.A., Ph.D.—Director of Research and Projects and Professor of Speech and Hearing Sciences
B.A., University of Minnesota; M.A., Ph.D., The Ohio State University.

GOMER JEFFERY POUND, Mus.B., M.Mus.Ed., Ph.D. in M.Ed.—Coordinator of Graduate Studies in Fine Arts and Professor of Music Education
Mus.B., Michigan State University; M.Mus.Ed., Ph.D. in M.Ed., Florida State University.

LOUIS LEROY ROGERS, B.S., M.A., Ed.D.—Director of Office of Student Teaching and Professor of Education
B.S., M.A., University of Southern Mississippi; Ed.D., University of Tennessee.

CHARLES JOHN SMITH, B.A., M.A., Ph.D.—Professor of English and Literature
B.A., M.A., University of Rochester; Ph.D., Syracuse University.

MARTIN STEGENGA, B.S., M.S., D.B.A.—Chairman of Department of Management and Professor of Management
B.S., M.S., Mississippi State University; D.B.A., Indiana University.

JAMES REGINALD SWITZER, B.S., M.S., Ed.D.—Dean of Student Affairs and Professor of Health and Physical Education
B.S., University of Southern Mississippi; M.S., Louisiana State University: Ed.D., University of Texas.

WARREN FRANCIS TRACY, A.B., B.S., in L.S., M.A., Ph.D.—Librarian Chairman of Department of Library Science and Professor of Library Science
A.B.,Earlham College; B.S., in L.S., Western Reserve University; M.A., Ph.D., University of Chicago.

WILLIAM TUCHAK, LL.M., I.A.M., Ph.D.—Professor of Political Science
LL.M., Casimir University; I.A.M., Columbia University; Ph.D., University of Colorado.

JOHN PIETERSEN VAN DEUSEN, B.S., M.A., Ed.D.—Chairman of Department of Elementary Education and Professor of Education
B.S., M.A., Ed.D., Florida State University.

RICHARD CRAWFORD VREELAND, B.A., M.B.A., Ph.D.—Chairman of Department of Marketing and Professor of Marketing
B.A., Rollins College; M.B.A., Ph.D., University of Florida.

JAMES FREDERICK WALKER, A.B., M.S., Ph.D.—Chairman of Department of Biology and Professor of Biology
A.B., M.S., University of Mississippi; Ph.D., University of Iowa; post-doctoral study, University of Miami, University of California at Los Angeles.

JESSIE STEWART WALL, B.A., A.M., Ed.D.—Professor of Elementary Education
A.B., Fairmont State College; A.M., West Texas State College; Ed.D., Florida State University; post-doctoral study, Florida State University, Columbia University.

SIDNEY EDWARD LEE WEATHERFORD, JR., B.S., M.A., Ed.D.—Dean of the Basic College and Professor of Education
B.S., M.A., University of Southern Mississippi; Ed.D., University of Florida.

SARAH LITTLETON WEAVER, B.S., M.A., Ph.D.—Chairman of Division of Home Economics and Professor of Home Economics
B.S., M.A., University of Southern Mississippi; Ph.D., Florida State University.

PORTER GRIGSBY WEBSTER, B.A., M.S., Ph.D.—Professor of Mathematics
B.A., Georgetown College; M.S., Ph.D., Auburn University.

LEON AUSTIN WILBER, A.B., M.A., Ph.D—Professor of Political Science
A.B., M.A., Ph.D., University of Michigan; post-doctoral study, University of Chicago, University of Southern California.

JACK COOK WIMBERLY, B.A., M.A., Ph.D. ..... Professor of Economics
B.A., Louisiana Polytechnic Institute; M.A., Ph.D., Louisiana State University.

MERTON STROEBEL ZAHRT, Mus.B., Mus.M., Ed.D. ..... Professor of Music Education
Mus.B., Lawrence College; Mus.M., University of Rochester; Ed.D., Columbia University.

ASSOCIATE PROFESSORS

JOHN DOUGLAS ALCORN, B.S., M.Ed., Ph.D. ..... Associate Professor of Guidance
B.S., M.Ed., Ph.D., East Texas State University.

CONRAD MERRITT ALLEN, B.S., M.A., Ph.D. ..... Associate Professor of Guidance
B.S., University of Alabama; M.A. University of Houston; Ph.D., University of Southern Mississippi.

ARNOLD GRAYUM ASHBURN, B.A., B.D., Th.D., Ph.D. ..... Associate Professor of Educational Research
B.A., Hardin-Simmons University; B.D., Th.D., Southwestern Baptist Theological Seminary; Ph.D., University of Southern Mississippi.

JAMES EDWARD BAXTER, B.A., M.A., Ed.D. ..... Director of Placement Bureau and Associate Professor of Education
B.A., Millsaps College; M.A., Duke University; Ed.D., University of Southern Mississippi.

LILLY ANNELLE BONNER, B.S., M.A., Ed.D. ..... Chairman of the Department of Business Education and Associate Professor of Business Education
B.S., M.A., University of Southern Mississippi; Ed.D., Indiana University.

RICHARD LEE BOWEN, A.B., M.A., Ph.D. ..... Associate Professor of Geology
A.B., University of North Carolina; M.A., Indiana University; Ph.D., University of Melbourne; Fulbright Scholar to Australia.

RICHARD HUGH BOWERS, B.A., M.A., Ph.D. ..... Associate Professor of History
B.A., M.A., Ph.D., Mississippi State University.

FRED WALDO BROWN, B.S., M.A., Ed.D. ..... Associate Professor of Science Education
B.S., Georgia Southern; M.A., University of Alabama; Ed.D., University of Georgia.

CLAUDE LOUIS CAMPBELL, B.S., M.A., Ed.D ..... Associate Professor of Education
B.S., University of Southern Mississippi; M.A., Ed.D., George Peabody College

ALAN HART DRAKE, A.B., M.Mus.Ed., Ph.D. ..... Associate Professor of Music Education and Director of Bands
A.B., University of Miami; M.Mus.Ed., Ph.D., Florida State University.

CHRISTOS LEONIDAS DOUMAS, B.A., M.A., Ph.D. ..... Associate Professor of Political Science
B.A., M.A., Ph.D., University of California at Los Angeles.

EDWARD JEFFERSON EATON, JR., B.S., M.S., Ed.D. ..... Associate Professor of Elementary Education
B.S., M.S., Florida State University; Ed.D., University of Illinois.

JOHN MORGAN FLOWERS, JR., A.B., M.S., M.Ed., Ed.D.—Associate Professor of Science Education
A.B., M.S., University of Alabama; M.Ed., Ed.D., Duke University.

[1]ALBERT DONALD GEORGE, A.B., M.A., Ph.D.—Associate Professor of Speech and Hearing Sciences
A.B., M.A., Ph.D., Louisiana State University.

KENNETH URIAL GUTSCH, B.M., M.Ed., Ed.D.—Associate Professor of Guidance
B.M., University of Miami; M.Ed., University of Mississippi; Ed.D., Florida State University.

GLENN TERRY HARPER, B.A., M.A., Ph.D.—Associate Professor of History
B.A., Furman University; M.A., Ph.D., Duke University.

ROBERT DENECKE HAYS, B.S., M.S., D.Mus.—Associate Professor of Music
B.S., M.S., University of Oregon; D.Mus., Indiana University.

CLARENCE CHARLES HOLDEN, B.S., M.Ed., Ed.S., Ed.D.—Associate Professor of Educational Administration
B.S., M.Ed., Ed.S., Ed.D., University of Florida.

MALCOM WAYNE HUCKABEE, B.A., M.A., Ph.D.—Associate Professor of Psychology
B.A., Mississippi College; M.A., Texas Christian University; Ph.D., University of Southern Mississippi.

ELVIN MAX HUNTER, B.S., M.Ed., Ed.D.—Associate Professor of Industrial Arts
B.S., M.Ed., Ed.D., University of Missouri.

LEWIS FRANK JAMES, B.A., M.Ed., Ph.D.—Director of the Office of Education and Psychology Research and Associate Professor of Psychology
B.A., M.Ed., University of Oklahoma; Ph.D., University of Texas.

NORMAN HALVOR KIESS, B.A., M.S., Ph.D.—Associate Professor of Physics
B.A., Swarthmore College; M.S., University of Maryland; Ph.D., The Johns Hopkins University.

DAVID WINSTON KNIGHT, B.S., Ph.D.—Associate Professor of Education and Director of the Reading Center
B.S., University of Florida; Ph.D., Florida State University.

ARNOLD DAVID LEWIS, B.S., M.S., Ph.D.—Associate Professor of Biology
B.S., Louisiana State University; M.S., Auburn University; Ph.D. Louisiana State University.

JAMES DOUGLAS LOWE, JR., B.S., M.A., Ph.D.—Associate Professor of Psychology
B.S., M.A., Ph.D., University of Alabama.

AUBREY KEITH LUCAS, B.S., M.A., Ph.D.—Registrar and Associate Professor of Education
B.S., M.A., University of Southern Mississippi; Ph.D., Florida State University.

HERBERT EUGENE LUCY, B.A., M.Ed., Ed.D.—Director of Student Counseling and Associate Professor of Psychology
B.A., William Carey College; M.Ed., Ed.D., University of Southern Mississippi.

HARVEY EDWIN MAIER, B.A., M.A., Ed.D.—Associate Professor of Music Education
B.A., North Dakota State Teachers College; M.A., University of Washington; Ed.D., Columbia University.

LILLIEN ERL MEHEARG, B.A., M.A., Ph.D.—Associate Professor of Psychology
B.A., Millsaps College; M.A., Louisiana State University; Ph.D., University of Southern Mississippi.

ASHLEY GRANTHAM MORGAN, B.S.Ed., M.Ed., Ed.D.—Chairman of the Department of Science Education and Associate Professor of Science Education
B.S.Ed., University of Georgia; M.Ed., University of Virginia; Ed.D., University of Georgia.

CARL RAY NEWSOM, B.S., M.S., Ph.D.—Associate Professor of Chemistry
B.S., Millsaps College; M.S., University of Alabama; Ph.D., George Peabody College.

PAUL WALLACE PEDDICORD, B.A., M.Ed., Ed.D.—Associate Professor of Educational Foundations
B.A., Furman University; M.Ed., University of Houston; Ed.D., Duke University.

JOHN PHILLIP POSEY, B.S., M.A., Ph.D.—Associate Professor of History
B.S., M.A., Ph.D., University of Georgia.

[3]WILLIAM HENRY PRESSER, A.B., Mus.M., Ph.D—Associate Professor of Music
A.B., Alma College; Mus.M., University of Michigan; Ph.D., University of Rochester; post-doctoral study, George Peabody College, University of the South.

WILLIAM KAUFFMAN SCARBOROUGH, A.B., M.A., Ph.D.—Associate Professor of History
A.B., University of North Carolina; M.A., Cornell University; Ph.D., University of North Carolina.

BYRON COLMAN SMITH, B.S., M.A., Ph.D.—Associate Professor of Biology
B.S., Indiana State University; M.A.. DePauw University; Ph.D., University of Georgia.

PETER KONRAD STOCKS, B.S., M.S., Ph.D.—Associate Professor of Biology
B.S., Millsaps College; M.S., University of Southern Mississippi; Ph.D., Louisiana State University.

SHELBY FRELAND THAMES, B.S., M.S., Ph.D.—Associate Professor of Chemistry
B.S., M.S., University of Southern Mississippi; Ph.D., University of Tennessee.

FORREST DALE TUCKER, B.A., M.A., Ph.D.—Chairman of Department of Communication and Associate Professor of Public Address
B.A., University of Wichita; M.A., Ph.D., Cornell University.

FRANK LEROY TURNER, JR., B.A., M.A., Ph.D.—Associate Professor of History
B.A., Southwestern at Memphis; M.A., Ph.D., University of North Carolina.

MINER LILE WEEMS, B.A., M.A., Ph.D.—Associate Professor of Political Science
B.A., University of Washington; M.A., Ph.D., Georgetown University.

D. C. WILLIAMS, JR., B.S., M.S., Ph.D.—Director, Bureau of Business and Economic Research and Associate Professor of Economics
B.S., Southeastern Louisiana College; M.S., Ph.D., Louisiana State University.

FORREST EDWARDS WOOD, JR., B.A., Th.D.—Acting Chairman of Department of Religion and Philosophy and Associate Professor of Religion and Philosophy
B.A., Baylor University; Th.D., Southwestern Baptist Theological Seminary.

WALTER HARRY YARROW, B.S., M.A., Ed.D.—Associate Professor of Health and Physical Education
B.S., M.A., Ed.D., University of Southern Mississippi.

HERMAN LAWRENCE ZILLMER, B.A., M.S., Ph.D.—Acting Chairman of Department of Theatre and Associate Professor of Theatre
B.A., Ft. Hays Kansas State Teachers College; M.S., Kansas State University; Ph.D., University of Wisconsin.

ASSISTANT PROFESSORS

WILLIAM HILTON ANDERSON, A.B., M.A., Ph.D.—Assistant Professor of English and Literature
A.B., Wofford College; M.A., Ph.D., University of South Carolina.

JOSEPH SAMUEL ANZALONE, B.S., M.S., Ph.D.—Director of Admissions and Assistant Professor of Educational Administration
B.S., M.S., University of Southern Mississippi; Ph.D., Florida State University.

WAYNE LOUIS BABIN, B.S., M.S., Ed.D.—Assistant Professor of Health and Physical Education
B.S., M.S., Ed.D., University of Southern Mississippi.

JOHN HOLCOMBE BEDENBAUGH, B.S., M.A., Ph.D. —Assistant Professor of Chemistry
B.S., Newberry College; M.A., University of North Carolina; Ph.D., University of Texas.

ARCH FREDRIC BLAKEY, B.A., M.A., Ph.D.—Assistant Professor of History
B.A., M.A., Ph.D., Florida State University.

JOHN HOWARD BOUNDS, B.S., M.Ed., Ph.D. —Assistant Professor of Geography
B.S., Florida Southern College; M.Ed., University of Florida; Ph.D., University of Tennessee.

MARICE COLLINS BROWN, A.B., M.A., Ph.D.—Assistant Professor of English and Literature
A.B., Mississippi State College for Women; M.A., University of Southern Mississippi; Ph.D., Louisiana State University.

[4]BRUCE HENRY CAMPBELL, B.S., M.A., Ph.D.—Assistant Professor of Chemistry
B.S., The University of Kansas; M.A., University of South Dakota; Ph.D., University of Texas.

[5]ORLEY BRANDT CAUDILL, B.S., M.A., Ph.D.—Assistant Professor of Political Science
B.S., M.A., Ph.D., University of Maryland.

WILLIAM SIDNEY COKER, B.A., M.A., Ph.D. —Assistant Professor of History
B.A., University of Oklahoma; M.A., University of Southern Mississippi; Ph.D., University of Oklahoma.

GEORGE FREDERICK CROZIER, JR., B.S., Ph.D. —Assistant Professor of Biology
B.S. Loyola University of the South; Ph.D., University of California at San Diego.

JULIA McBROOM DAVIS, B.A., M.S., Ph.D. —Assistant Professor of Speech and Hearing Sciences
B.A., M.S., Northwestern State College of Louisiana; Ph.D., University of Southern Mississippi.

JACK POLLARD DONOVAN, B.S., M.Mus., Ph.D.—Assistant Professor of Music
B.S., M.Mus., The University of Nebraska; Ph.D., University of Southern Mississippi.

NETTIE ETOILE DUBARD, B.S., M.A., Ph.D.—Director of Deaf and Aphasic School and Assistant Professor of Speech and Hearing Sciences
B.S., Mary Hardin-Baylor University; M.A., George Peabody College; graduate study; University of Texas, University of Utah, Central Institute for the Deaf at Washington University; Ph.D., University of Southern Mississippi.

RUSSELL IRWIN EVERETT, B.S., M.A., Ph.D.—Assistant Professor of Public Address
B.S., State Teachers College at Slippery Rock, Pa.; M.A., Louisiana State University; Ph.D., The Ohio State University.

BARBARA ANN FISCHER, B.A., M.A., Ph.D.—Assistant Professor of Biology
B.A., University of Missouri; M.A., University of California at Berkeley; Ph.D., St. Louis University.

ROGER BARTON JOHNSON, JR., B.A., A.M., Ph.D.—Assistant Professor of Foreign Languages
B.A., University of Southern Mississippi; A.M., Ph.D., University of Illinois.

WALLACE GRANT KAY, B.A., M.A., Ph.D. —Assistant Professor of English and Literature
B.A., Southern Methodist University; M.A., Ph.D., Emory University.

ROBERT WILLIAM KING, B.S., M.S., Ph.D.—Assistant Professor of Mathematics
B.S., M.S., University of Southern Mississippi; Ph.D., Florida State University.

JOHN WALDO LORTON, B.S., M.Ed., Ed.D.—Assistant Professor of Elementary Education
B.S., Anderon College; M.Ed., University of Florida; Ed.D., University of Southern Mississippi.

ROBERT BRUCE MAHAFFEY, B.S., M.A., Ph.D.—Acting Chairman of Department of Speech and Hearing Sciences and Assistant Professor of Speech and Hearing Sciences
B.S., M.A., Ph.D., The Ohio State University.

THOMAS STANLEY MARTIN, B.S., M.Ed., M.D.—Director of Student Health Services and Assistant Professor of Health and Physical Education
B.S., Mississippi College; M.Ed., University of Southern Mississippi; M.D., University of Mississippi.

OSCAR LAWRENCE PAULSON, JR,. B.S., M.S., Ph.D.—Assistant Professor of Geology
B.S., M.S., Mississippi State University; Ph.D., Louisiana State University.

JAMES WESLEY PINSON, B.S., M.S., Ph.D.—Assistant Professor of Chemistry
B.S., William Carey College; M.S., Ph.D., University of Mississippi.

ROBERT REED SANDERLIN, B.S., M.A., Ph.D.—Assistant Professor of English Literature
B.S., M.A., Memphis State University; Ph.D., University of North Carolina.

JOHN RAY SKATES, Jr., B.B.A., M.A., Ph.D.—Assistant Professor of History
B.B.A., University of Mississippi, M.A., Ph.D., Mississippi State University.

ISADORE LEON SONNIER, A.B., A.M., Ed.D.—Assistant Professor of Science Education
A.B., University of Southwestern Louisiana; A.M., Louisiana State University; Ed.D., Colorado State College.

WARREN CLAYTON SULLIVAN, B.A., B.D., Th.D.—Assistant Professor of Religion
B.A., Mississippi College; B.D., Th.D., Southern Baptist Theological Seminary.

ALBERT HENRY SWANN, B.S., M.S., Ed.D.—Assistant Professor of Science Education
B.S., Carson-Newman College; M.S., Ed.D., University of Mississippi.

FRANK VIRDEN, B.S., M.A., D.P.A.—Assistant Professor of Political Science
B.S., United States Naval Academy; M.A., D.P.A., George Washington University.

LATNEY CONRAD WELKER, JR., B.S., M.A., Ed.D.—Assistant to the Dean of the School of Education and Psychology and Assistant Professor of Educational Foundations
B.S., Millsaps College; M.A., Ed.D., University of Southern Mississippi.

DAVID LEE WERTZ, B.S., M.S., Ph.D.—Assistant Professor of Chemistry
B.S., Arkansas State University; M.S., Ph.D., University of Arkansas.

KAREN MARGUERITE YARBROUGH, B.S., M.S., Ph.D.—Assistant Professor of Biology
B.S., M.S., Mississippi State University; Ph.D., North Carolina State University.

INSTRUCTORS

LAURITZ B. CHRISTENSEN, B.S., M.S., Ph.D.—Instructor in Psychology
B.S., M.S., Ph.D., University of Southern Mississippi.

THE ASSOCIATE GRADUATE FACULTY

PROFESSORS

BENJAMIN ORMOND VAN HOOK, A.B., M.A., ——Acting Chairman of Department of Mathematics and Professor of Mathematics
A.B., Millsaps College; M.A., Vanderbilt University; doctoral study, Vanderbilt University, Duke University.

ASSOCIATE PROFESSORS

HAYWARD GLENN ANDERSON, B.S., M.A., C.P.A. —Associate Professor of Accounting
B.S., M.A., University of Southern Mississippi; graduate study, University of Alabama.

FRANCES ELIZABETH BENNER, B.M., Mus.M.,——Associate Professor of Music
Arthur Jordan Conservatory, Butler University, Soloist Diploma in Piano; Fontainbleau School of Music; B.M., Mus.M. in voice, Cincinnati College of Music.

STANLEY MALCOLM CARPENTER, B.S., M.B.A., C.P.A. —— Associate Professor of Accounting
B.S., University of Southern Mississippi; M.B.A., doctoral study, University of Georgia.

THOMAS THORNTON CHISHOLM, B.A., M.A. ——Acting Chairman of Department of Foreign Languages and Associate Professor of Foreign Languages
B.A., University of Mississippi; M.A., University of Texas; Fulbright Fellow, Sorbonne and University of Strasbourg; doctoral study, University of Texas, Louisiana State University.

STEPHEN HARRIS FINESMITH, B.B.A.——Associate Professor of Psychology
B.B.A., City College of New York; doctoral study, University of Buffalo.

JOSEPH FRANCIS HUCK, Mus.B., M.M.——Associate Professor of Music
Mus.B., M.M., American Conservatory; graduate study, American Conservatory, Chicago Musical College.

HOWARD OLIVER JACKSON, B.S., M.A., C.P.A. —— Acting Chairman of Department of Accounting and Associate Professor of Accounting
B.S., M.A., University of Southern Mississippi; graduate study, University of Alabama.

BRYCE DONNELL JORDAN, B.S., M.P.A.——Associate Professor of Finance
B.S., Mississippi State University; M.P.A., Harvard University; doctoral study, University of Alabama.

FREDERICK DILL KENAMOND, A.B , M.S., C.P.A.——Associate Professor of Accounting
A.B., Shepherd College; M.S., University of Southern Mississippi; doctoral study, University of Alabama.

KARL NEUMANN, LL.D., M.F.A.—— Associate Professor of Music Education
LL.D., Prague University; M.F.A., Carnegie Institute of Technology.

EDUARDO GONZALEZ SCHEEL, B.A., M.A. ——Associate Professor of Foreign Languages
B.A., M.A., doctoral study, University of Texas.

BEVERLY LOUISE STAFFORD, B.S., M.S.——Associate Professor of Health and Physical Education
B.S., Southeastern Louisiana College; M.S., doctoral study, Louisiana State University.

ASSISTANT PROFESSORS

PAUL DAVID ANDERSEN, B.Mus., M.Mus. —— Assistant Professor of Music
B.Mus., Drake University; M.Mus., Syracuse University; doctoral study, Washington University.

JANE RYON ANDERSON, A.B., M.A., Assistant Professor of English and Literature
A.B., Randolph Macon Woman's College; M.A., University of South Carolina.

MABEL MAE BALDWIN, B.S. in Ed., M.A. Assistant Professor of Business Education
B.S. in Ed., Central Missouri State College; M.A., University of Iowa; graduate study, Columbia University.

ROBERT WOODWARD BARNWELL, III, B.A., M.A. Assistant Professor of Political Science
B.A., Millsaps College; M.A., doctoral study, Tulane University.

WILLIAM JOHN BENNETT, B.A., Assistant Professor of Religion and Philosophy
B.A., Williams College.

HUGH MYERS BIRMINGHAM, B.Mus., M.A. Assistant Professor of Music
B.Mus., M.A., North Texas State University; post-graduate study, Indiana University.

JAMES C. BISHOP, B.A., M.S. Assistant Professor of Journalism
B.A., University of Mississippi; M.S., University of Southern Mississippi.

BEN ALLEN BLACKMON, B.A., M.A. Assistant Professor of Sociology
B.A., Mississippi College; M.A., doctoral study, Louisiana State University.

JOHN ANDREW BONNO, B.A., M.B.A. Assistant Professor of Economics
B.A., Kentucky Wesleyan College; M.B.A., University of Arkansas.

LOUIS EUGENE BOONE, B.S., M.S. Assistant Professor of Marketing
B.S., Delta State College; M.S., University of Southern Mississippi; doctoral study, University of Arkansas.

OTTAMISE COLLEEN WHITTINGTON CAMERON, B.S., M.S., Assistant Professor of Business Education
B.S., M.S., University of Southern Mississippi; doctoral study, Indiana University.

AUGUST NORBERT CARNOVALE, B.M., M.A. Assistant Professor of Music Education
B.M., Louisiana State University; M.A., Columbia University; advanced study, Colorado Western State College, Oklahoma State University.

DANNY REED CARTER, B.S., M.S., Acting Chairman of Department of Computer Science and Statistics and Assistant Professor of Computer Science and Statistics
B.S., M.S., University of Southern Mississippi; doctoral study, Virginia Polytechnic Institute.

ELSIE BOSCHERT CHICHESTER, B.S., M.S. Assistant Professor of Home Economics
B.S., Delta State College; M.S., University of Tennessee.

JACK CARLUS COOLEY, B.S., M.S., C.P.A. Assistant Professor of Accounting
B.S., M.S., University of Southern Mississippi.

GENE ARNOLD CROWDER, B.S., M.Ed. Assistant Professor of Industrial Arts
B.S., University of Southern Mississippi; M.Ed., Colorado State University; doctoral study, Texas A & M University.

JAMES LOUIS DAVIS, B.S., M.S. Assistant Professor of Management
B.S., M.S., University of Southern Mississippi; doctoral study, Louisiana State University.

JOHN ROBERT DONOHUE, B.M., M.M. Assistant Professor of Music
B.M., M.M., Louisiana State University; doctoral study, Michigan State University.

LOIS ARENDER DRAIN, B.S., M.S. Assistant Professor of Home Economics
B.S., Northeastern State College; M.S., Oklahoma State University.

WOODROW WILSON ELLIS, B.A., M.B.A.—Assistant Professor of Management
B.A., University of Mississippi; M.B.A., University of Alabama; doctoral study, Mississippi State University.

DAVID JULIUS ETZOLD, B.S., M.B.A. —Assistant Professor of Management
B.S., Mississippi State University; M.B.A., Rollins College; post-graduate study, Mississippi State University.

ARTHUR GEOFFREY FISH, B.S., M.S. —Assistant Professor of Biology
B.S., Carleton University; M.S., McGill University; pre-doctoral study, University of British Columbia.

BILL W. FRANKS, B.S., M.S. —Assistant Professor of Physics
B.S., North Texas University; M.S., University of Wisconsin; post-graduate study, Texas A & M University.

MILDRED JOYCE GILES, B.S., M.S. —Assistant Professor of Speech and Hearing Sciences
B.S., M.S., doctoral study, University of Southern Mississippi.

ALBERT EDWARD GOWER, JR., A.B., M.M.—Assistant Professor of Music
A.B., Sacramento State College; M.M., University of Oregon; post-graduate study, North Texas State University.

ROBERT DALE HATCHER, SR., B.S.F., M.S. —Assistant Professor of Geography and University Forester
B.S.F., M.S., doctoral study, University of Georgia.

LEE KEMBERLY HILDMAN, B.S., M.S. —Assistant Professor of Psychology
B.S., M.S., Florida State University; doctoral study, University of Florida.

[1]GUY MANN HORTON, B.S., M.Ed.—Assistant Professor of Journalism
B.S., M.Ed., East Texas State College; graduate study, University of Texas.

GEORGE EUGENE IMBRAGULIO, B.M., M.M. —Assistant Professor of Music
B.M., M.M., Michigan State University; summer study: Aspen, Colorado; St. Cecelia Conservatory, Rome, Italy; Florida State University; Michigan State University.

MARTIN MONROE JONES, A.B., M.A.—Assistant Professor of Philosophy
A.B., University of Virginia; M.A., Tulane University.

PHILIP DWIGHT KOOS, JR., B.S., M.A.—Assistant Professor of Geography
B.S., Indiana University of Pennsylvania; M.A., doctoral study, University of Georgia.

KIE WOOK LEE, B.A., M.A. —Assistant Professor of Economics
B.A., Seoul National University; M.A., doctoral study, Vanderbilt University.

[1]MARY MARGARET McCARTHY, B.S., M.A.—Assistant Professor of Home Economics
B.S., M.A., University of Southern Mississippi

KENNETH GRAHAM McCARTY, JR., B.S., M.A.—Assistant Professor of History
B.S., M.A., University of Southern Mississippi; doctoral study, Duke University.

HARRY WELLS McCRAW, B.S., M.A. —Assistant Professor of English and Literature
B.S., Massachusetts Institute of Technology; M.A., Tulane University.

DANIEL WILKINS McMURRY, A.B., M.A.—Assistant Professor of Sociology
A.B., M.A., doctoral study, University of North Carolina.

[1]JAMES MERWYN McQUISTON, JR., B.S.—Assistant Professor of Economics
B.S., University of Southern Mississippi; doctoral study, University of Virginia.

LOUELLA GILL MILNER, B.S., M.S.—Assistant Professor of Home Economics
B.S., M.S., University of Southern Mississippi.

LOLA PENNYAN MOBLEY, A.B., M.A. ..... Assistant Professor of Political Science

A.B., M.A., George Washington University; doctoral study, University of Kentucky.

EDITHA SCHLANSTEDT NEUMANN, B.A., M.S.W. ..... Assistant Professor of Foreign Languages

B.A., University of Berlin; M.S.W., University of Pittsburgh; doctoral study, Tulane University.

EDWARD NISSAN, B.S., M.A. ..... Assistant Professor of Computer Science and Statistics

B.S., M.A., University of Kansas; doctoral study, Texas A & M University.

MARIAN ZYGMUNT NOWAKOWSKI ..... Visiting Assistant Professor of Music

Performance Diploma, Conservatory of Music and Fine Arts, Lwon, Poland.

ROBERT CHRISTOPHER PIERLE, JR., B.A., M.A. ..... Assistant Professor of English and Literature

B.A., Hampden-Sydney College; M.A., Duke University; doctoral study, Auburn University.

MORTON HERBERT RABIN, B.A., M.A. ..... Assistant Professor of Psychology

B.A., New York University; M.A., Columbia University; doctoral study, Columbia University and Florida State University.

FRANCIS ELIZABETH RECK, B.S., M.A. ..... Assistant Professor of Business Education

B.S., Kansas State Teachers College; M.A., State University of Iowa; graduate study, New York University, Gregg College, Indiana University, University of Colorado.

DAVID ALLEN SISEMORE, B.A., M.A. ..... Assistant Professor of Psychology

B.A., M.A., doctoral study, University of Arkansas.

[1]BILLY BORDEN SLAY, B.S., M.S. ..... Assistant Professor of Health and Physical Education

B.S., M.S., University of Southern Mississippi; doctoral study, Louisiana State University.

JACK ALAN SMITH, B.S., M.A. ..... Assistant Professor of English and Literature

B.S., Troy State College; M.A., Auburn; doctoral study, Auburn University.

SANDRA SHUPIK McCUISTION SWIFT, B.S., M.B.A. ..... Assistant Professor of Economics

B.S., M.B.A., doctoral study, University of Arkansas.

JAMES AIRD TOWNLEY, B.S., M.A. ..... Assistant Professor of Health and Physical Education

B.S., M.A., University of Southern Mississippi; doctoral study, Louisiana State University.

MAXINE YOUNG WARREN, B.S., M.Ed. ..... Assistant Professor of Elementary Education

B.S., M.Ed., North Texas State University.

GARY MASEFIELD WINKLE, B.B.A., M.B.A., C.P.A. ..... Assistant Professor of Accounting

B.B.A., M.B.A., University of Georgia.

1 Leave of Absence 1967-68

2 Leave of Absence Fall Quarter 1967

3 Leave of Absence Spring Quarter 1968

4 Appointed Winter Quarter

5 Appointed Spring Quarter

GRADUATE FELLOWS

1967-1968

BETTY C. ALEXANDER	Home Economics
CLOIS R. AYCOCK	History
STEPHEN A. BADGER	Biology
JAMES W. BARNES	Science Education
LEROY L. F. BARTELT	Guidance
EARL BENTLEY	Health and Physical Education
HENRY W. BLACK	History
JANICE L. BOLTON	Home Economics
BETTY YARBROUGH BOYD	English
BYRON A. BRACEWELL	Finance
FAYE L. BRADLEY	Sociology
NOEL V. BRODTMANN, JR.	Biology
OSCAR J. BROUILLETTE	Science Education
BARBARA ANN BROWN	Sociology
SAM P. BROWN	History
MARY NELLE BUCK	Home Economics
CHARLES BUNTING	English
BILLY RAY BURKETT	Finance
GENEVIEVE BURRIS	Guidance
GEORGE D. CANNON	Educational Administration
JAMES KENT CANNON	Speech and Hearing Sciences
SERGIO CASTELLON	Chemistry
EULALYN W. CLARK	English
AMELIA CLARKE	Secondary Education
BOYNE COATS	Elementary Education
DELMAS CRISP	English
BILLY JOE DANIEL	Health and Physical Education
PATRICIA N. DANIEL	Elementary Education
REVA DANIEL	English
ANNIE DELL DAVIS	Home Economics
BONNIE DAVIS	Guidance
JOHN W. DAVIS	Elementary Education
ROYCE P. DAVIS, JR.	Bureau of Business Research
RICHARD DONALD DIAMOND	Communication
WILLIAM A. DILLON	Biology
MARJORIE DRACOS	Guidance
KENNETH DRAKE	Geography
WALTER F. DREW	Elementary Education
WILLIAM T. DUKE	Political Science
MARTHA DURDEN	English
ANTHONY FINLEY EASTMAN	History
JAMES M. EWING, JR.	English
DOUGLAS B. FANCHER	Psychology
JACK G. FERRELL, JR.	Psychology
DOTTIE FERRINGTON	Music
ROBERT HARRIS FERRINGTON	Music Education
EDWARD FLEMING	Political Science
JAMES R. FLEMING	Music Education
PAUL NEEDHAM FOGG	Chemistry

ROSEMARIE FRANCIS	Foreign Language
CARL J. GATES	Guidance
RONALD A. GAUTHIER	Elementary Education
CHARLIENE HADEN GILDER	Home Economics
THOMAS JAMES GLENNON	Psychology
RAYMOND GONZALEZ	Political Science
TOMMY D. GRAFTON	Health and Physical Education
MALCOLM J. GRAHAM, III	Psychology
JAMES S. GRAVES	Health and Physical Education
PHILIP GLEN GRICE	Educational Administration
TOMMY UDELL GRUBBS	Biology
JOSEPHINE HALEY	English
EDNA R. HANNAH	English
MARY M. HARMON	Foreign Language
DAVID BUTLER HEFLIN	Communication
DONALD HEINE	Geography
LEROY HENDERSON	Communication
LLOYDELLE W. HERRING	Music Education
WILLIAM J. HERRING	Music Education
ROBERT HERRINGTON	Biology
VIRGINIA S. HILL	Management
BENNY J. HORNSBY	English
JOHN HUBBARD	Music
BETTY SUE HUMPHRIES	Home Economics
BILLY FRANK JACKSON	Political Science
JACQUELINE G. JONES	Economics
KUNCHITHAPATHAM KANDASWAMY	Biology
ANNA FAYE KELLY	Business Education
THOMAS KENNEY	Economics
CURTIS B. KILLOUGH	Elementary Education
HAROLD V. KNIGHT	Educational Administration
PAUL LADNIER	Business Education
SHIRLEY LAMB	Elementary Education
ANNA LIN	Bureau of Business Research
LINDA HSIU-CHIAO LO	Finance
JERALD D. McCOLLUM	Music Education
JOHNNY B. McDANIEL	Health and Physical Education
CHARLES B. MAULDIN	Science Education
JANE VIVIAN MAY	Speech and Hearing
JOHN MILLER	Music
JOSEPH H. MILLER	Economics
JUDY MILLER	Music
LYNN W. MILLER	Music
RICHARD J. MILLER	Biology
ROGER C. MOTT	Educational Administration
IRENE MURRAY	Political Science
WILLIAM RILEY NELSON	Sociology
GUY NEFF	Geography
LAWRENCE G. NESWICK	Educational Administration
EUGENE F. NOEL	Health and Physical Education
RONALD G. NOLAND	Elementary Education
VALORIE ELAINE NYBO	Health and Physical Education

DONALD STUART OAKES	Educational Administration
C. MICHAEL OLIVER	Guidance
HALIL OZERDEN	Psychology
ROSE-ESTELLE BROWN PANSANO	Sociology
ROBERT W. PASKAL	Educational Administration
JOHN B. PATTISON, III	Management
GEORGE WAYNE PETRY	Economics
DAN C. PITTMAN	English
SHEILA PRICHARD	English
STEPHEN QUAVE	Biology
STEWART H. RAMSAY	Management
PAUL H. REUTER, JR.	History
JAMES LEWIS ROBBINS	Biology
FRANCES COCHRAN ROBERSON	Business Education
MICHAEL SALSBURY	Chemistry
T. G. SARPHIE, JR.	Biology
RALPH LEE SAVAGE	Political Science
ARIETTE WHITE SEALE	Home Economics
HENRY E. SEILER	Biology
EDWARD JOSEPH SHUMSKI, JR.	Biology
DOUGLAS WALTER SMITH	Health and Physical Education
HIRAM SMITH	Guidance
MARVIN E. SOUTHERN	Educational Administration
MARY EVA STALLWORTH	English
LARRY DANIEL STANLEY	Psychology
THOMAS A. STARNES	Educational Administration
BETTY STEADMAN	English
MARY ANNE STRAHAN	Communication
SAM F. STEVEN	Psychology
PAUL B. STRAWITZ	Elementary Education
NANCY STREBECK	English
JEREMIAH M. SULLIVAN	Economics
WILLIAM B. TAYLOR, III	History
CHARLES B. THOMPSON	Health and Physical Education
CARROLL L. THORNE	Political Science
LARRY L. THORNTON	Guidance
JAMES R. TINSLEY	History
JOHN T. TURNER	Bureau of Business Research
JORJA MAE TURNIPSEED	Secondary Education
PETER BEASLEY VENABLE	Secondary Education
AUGUST M. WALCHAK	Marketing
GAREY DALE WALTERS	Finance
LYNDA KAY WALLEY	Speech and Hearing Science
ANDREW J. L. WASKEY, JR.	Political Science
ROBERT FORD WELFORD	Biology
ROSE GAYLE WEST	Chemistry
E. RUSS WILLIAMS, JR.	History
JAMES R. WILLIAMSON	Political Science
THOMAS LEE WILLOUGHBY	Psychology
ROBERT S. YOUNG	History
FREDERICK I. VINSON	Finance

PART TWO

THE GRADUATE SCHOOL

THE GRADUATE SCHOOL

The Graduate School at the University of Southern Mississippi was established in 1947 to recognize the University's growing responsibilities as a center of higher learning, and to provide an academic environment in which advanced research and free inquiry could develop to the advantage of both the student and the State. In the years since 1947, the University's graduate programs have developed logically on the growing points of strong undergraduate schools and departments to meet the needs for professional competence beyond the academic measure of the baccalaureate degree.

The Graduate School's Place Within the University Structure

The Graduate School is administered by a Dean, executing policies determined by the Graduate Council, of which the Dean of the Graduate School serves as chairman.

The present composition of the Graduate Council (see Part I) includes the Dean of the Graduate School as chairman with two representatives each from the College of Arts and Sciences and the School of Education and Psychology and one representative each from the School of Business Administration, the School of Fine Arts, and the Division of Home Economics. Council members are appointed by the President of the University upon the recommendation of the Dean of the University. Permanent **ex officio** members are the President of the University and the University Librarian. The University Registrar serves as secretary to the Council.

The responsibilities of the Graduate Council, representing both administration and faculty, include:

1. Determining policies of admission to the Graduate School;

2. Considering and approving graduate programs submitted to the Council through curriculum committees of each college, school, and division;

3. Electing members to the Graduate Faculty upon recommendation by the academic deans and division chairmen;

4. Approving new courses and deleting courses for graduate credit;

5. Acting upon any other problems affecting graduate programs.

The graduate programs approved by the Council are carried out through the Graduate Faculty (see Part I of this **Bulletin**) in each degree-granting college, school, and division of the University's academic organization.

Degree and Specialist Programs Offered

As the Table of Contents pages indicate, the University of Southern Mississippi now offers graduate level programs in nearly every recognized academic discipline. Even those departments not yet ready to offer master's or doctoral degrees are usually equipped to offer a graduate minor. The School of Education and Psychology, which pioneered graduate programs at the University, offers the Master of Education, the Master of Arts, the Master of Science degrees, the Educational Specialist Certificate, and the Doctor of Philosophy and the Doctor of Education degrees. The College of Arts and Sciences grants the Master of Arts, the Master of Science, and the Doctor of Philosophy degrees. The Master of Business Administration, the Master of Arts, and the Master of Science degrees are conferred by the School of Business Administration. The School of Fine Arts offers the Master of Music, the Master of Music Education, the Master of Arts in Theatre, the Doctor of Philosophy and the Doctor of Education degrees. The Division of Home Economics grants the Master of Science degree.

The undergraduate, master's, and specialist programs in teacher education are accredited by the National Council for Accreditation of Teacher Education.

See Part V of this **Bulletin** for the department curricula covering each of these degrees and the specialists programs.

PART THREE

ADMISSION REQUIREMENTS AND PROCEDURES

FINANCIAL INFORMATION

ADMISSION REQUIREMENTS AND PROCEDURES

Admission to the Graduate School is not the same as admission to the status of candidacy for a degree. The Graduate School, as such, grants no degrees. The graduate degree programs are departmental responsibilities within each of the following colleges, schools, and divisions of the University:

College of Arts and Sciences
School of Business Administration
School of Education and Psychology
School of Fine Arts
Division of Home Economics

It must be emphasized, therefore, that admission to the status of **candidacy for a degree** has specific additional requirements and procedures beyond the general requirements and procedures for **admission to the Graduate School** itself.

Admission to the Graduate School

General Requirements:

1. The applicant, for admission to the Graduate School, must hold a baccalaureate degree from an institution approved by a recognized accrediting agency.

2. The applicant must be eligible to re-enter in good standing the last college or university he attended.

3. The applicant must present evidence, by official transcript (two copies), of a grade point average of at least 2.75 (figured on an A equals 4.0 scale) for the last two years of undergraduate study, and a grade point average of at least 3.0 on undergraduate courses in the field of proposed graduate study. Any exception to this requirement must be cleared with the appropriate department chairman, the dean concerned, and the Dean of the Graduate School.

4. The applicant must present a combined score of 750 or above on the aptitude sections of the Graduate Record Examination. Certain departments within the University require higher totals and/or the advanced section of the Graduate Record Examination. Consult specific departmental requirements for this information

5. The department in which the applicant proposes to concentrate his graduate study must be satisfied that the applicant shows promise of satisfactory accomplishment of the department's graduate degree requirements.

6. The dean concerned and the Dean of the Graduate School must be satisfied that the applicant shows promise of intellectual or professional achievement consonant with the degree sought.

Procedures for Applying for Admission:

1. Application materials are available from the Director of Admissions, Box 11, Southern Station, Hattiesburg, Miss. 39401.

2. All credentials (application, recommendations, medical examination record, two official transcripts from **each** institution attended) must be submitted to the Director of Admissions by the deadline published in the University Calendar.

3. After all credentials are received, the Admissions Office will compute the applicant's grade point average and will forward the application and transcripts to the appropriate department chairman, dean, and to the Dean of the Graduate School. As soon as the application has been processed by the department chairman, the dean concerned, and the Dean of the Graduate School, the Director of Admissions will notify the applicant of the University's decision on his request for admission.

Admission Requirements and Procedures:

Types of Admission to Graduate Standing:

1. **Regular Graduate Student.** An applicant who meets all admission requirements as outlined above is considered to be a regular graduate student.

2. **Conditional Graduate Student.** A student who does not meet the minimum standards for either grade point average or Graduate Record Examination set forth in Items 3 and 4 of General Requirements (above) may be admitted on a conditional basis in one of two ways:

A. He must present a score of 750 or above on the aptitude sections of the Graduate Record Examination and a grade point average no lower than 2.5.

B. He must present a grade point average of 2.75 or above if he has scored lower than 750 on the aptitude sections of the Graduate Record Examination.

Conditional admission can be given only upon the specific recommendation of the department chairman of the applicant's proposed major department and with the approval of the dean concerned and of the Dean of the Graduate School.

A "conditional" graduate student must meet the following conditions if he is to continue in the Graduate School:

A. If his first enrollment is as a full-time student, he must make grades of B or better on each graduate course attempted during that first quarter.

B. If his first enrollment is as a part-time student, he must make grades of B or better on his first twelve (12) quarter hours, or grades of B or better on all courses taken while completing the twelve-hour requirement.

All courses taken to meet the conditional admission must be taken on the Hattiesburg campus. After the student meets the above requirement he should so notify his department chairman. Upon the recommendation of the department chairman and the Dean of the Graduate School, the "conditional" admission may be removed. The student will then be reclassified as a "regular" graduate student.

3. **Non-Degree Graduate Student.** This limited type of admission is reserved for those instances where applicants can not meet the requirements for admission as "conditional" graduate students. Students offered this "non-degree" type of admission by the Committee on Admissions and Credits (Graduate) are permitted to register and earn credit for graduate courses, **but they may not apply for admission to candidacy for a graduate degree at the University of Southern Mississippi.**

4. **Guest Graduate Student.** Students who desire to take graduate work at the University of Southern Mississippi for credit toward a degree at another institution may do so when written permission from their graduate dean is received by the Dean of the Graduate School of the University of Southern Mississippi. Standard Application for Admission to the Graduate School forms must be submitted to the Director of Admissions. Credit may not exceed nine (9) quarter hours.

Permission for Undergraduate Seniors to Register for Graduate Credit:

Exceptionally well qualified undergraduate students at the University of Southern Mississippi may apply to the Dean of the Graduate School for permission to take course work for graduate credit if they are within eight (8) quarter hours of meeting bachelor's degree requirements as shown by a memorandum of credits from the Registrar's Office. If the Dean of the Graduate School approves, the student may then register for graduate courses up to a maximum of eight (8) quarter hours of graduate credit with a total course load not exceeding sixteen (16) quarter hours. The student must complete requirements for the baccalaureate degree within the first quarter in which he registers for graduate courses. The student's application for admission to the Graduate School will not be given final approval until after he satisfies all requirements for the baccalaureate degree.

Admission to Candidacy for a Degree

Master's Degrees:

Admission to the Graduate School as either a regular graduate student or a conditional graduate student does not automatically imply that the student is admitted to the status of candidacy for a degree. Accumulation of graduate credit hours shall not be construed to imply admission to candidacy for a degree. A student may be admitted to the status of candidacy for a degree only after he has demonstrated his ability and fitness to do graduate work. This fitness and ability must be demonstrated in each of the following ways:

1. Completion of a minimum of twelve (12) hours of graduate work with no grade below a B.

2. Completion of the University of Southern Mississippi English Proficiency Examination or its equivalent.

3. Completion of other requirements in the college, school, or division of his major as specified in Part V of this **Bulletin.**

4. Completion of the prescribed candidacy for a degree form obtainable from the Registrar. This form sets forth the student's proposed program of course work yet to be completed, and it must be signed by the student's major professor, the appropriate dean, and the Dean of the Graduate School. The completed form should be filed early in the quarter next succeeding the student's completion of twelve hours of graduate work. **In all cases the student must complete at least twenty (20) hours of graduate course work after admission to candidacy.** The student will be notified by the appropriate dean of the action taken on his request for admission to candidacy.

Advanced Graduate Study:

Two advanced level programs are available for students who hold a master's degree and who wish to do additional graduate work. The first of these programs leads to the Educational Specialist Certificate; the second covers all doctoral programs.

The **Educational Specialist Certificate** is available in the areas of School Administration, Secondary Education, and Elementary Education. This program requires approximately one year of graduate study beyond the master's degree level. The requirements noted above for admission to candidacy for a master's degree are also applicable for the Educational Specialist Certificate with the exception that the applicant is not required to propose a minor field of study. The proposed program must be approved by the candidate's major professor, and the graduate courses selected shall be chosen to insure both breadth and depth in the student's professional preparation.

Doctoral Degrees: To be admitted to the University's **doctoral** programs, the student must show outstanding potential ability, with a minimum grade point average of 3.25 on all previous graduate work. Students possessing a minimum grade point average between 3.0 and 3.25 may be admitted on a conditional basis upon the specific recommendation of the department chairman, with the approval of the appropriate dean and of the Dean of the Graduate School. Minimum grade point averages in excess of 3.25, however, may be required by certain departments (see Part V of this **Bulletin).**

To be admitted to advanced graduate study, the student must submit a formal application through the Admissions Office even though he may have successfully completed a master's degree program at the University of Southern Mississippi. Acceptance as an advanced graduate student is contingent upon the approval of the department chairman, the dean concerned, and the Dean of the Graduate School.

The following specific instructions must be followed by a student **previously admitted to the Graduate School** in seeking admission to a specialist or doctoral program.

1. The student must secure from the Office of the Dean of the Graduate School an Application for Advanced Graduate Study.

2. The student must secure from the Office of the Registrar a memorandum of credits reflecting all work completed at the University. Transcripts covering work done elsewhere since the last attendance here must also be secured.

3. The student must request that letters of recommendation be sent to the departmental chairman or coordinator of graduate studies concerned from at least two persons familiar with the applicant's background and competence.

4. The student must submit the credentials indicated above directly to the departmental chairman or coordinator of graduate studies concerned. An application for readmission must be submitted to the Admissions Office.

Limitations on University Faculty Members:

Members of the faculty of the University of Southern Mississippi above the rank of instructor can not become candidates for a doctoral degree at this institution. They may, however, enroll for graduate courses. Faculty members of the rank of instructor may become candidates for doctoral degrees at the University of Southern Mississippi on the same terms as any other advanced graduate student candidates.

STUDENT EXPENSES

A primary objective of the University is to hold to a minimum the expense of its students. Changes in fees are made, whenever possible, to benefit the students. Increases are made only when required for support of the institution or improvement of the activity program of the students.

Announcements concerning fees and expenses are subject to change without notice and may not be regarded as binding obligations of the University.

Fees and expenses are in the form of incidental fees, room and board, and special fees.

INCIDENTAL FEE. This fee is used for general support of the University and consists of charges for matriculation, library, athletic activities, health service, University Union, University newspaper, laboratory, concert series, maintenance, etc. Athletic activities, health service, and newspaper are not included for part-time students.

Full-time students for purposes of assessing fees are as follows: Graduate School, nine (9) or more quarter hours; all other schools, college, and divisions,

twelve (12) or more quarter hours. Students enrolled for more than eighteen (18) hours will be assessed the applicable fee for each additional quarter hour. (Students training under Veterans Administration programs on the graduate level are required by the Veterans Administration to carry a minimum of twelve (12) quarter hours for the entire quarter to receive full subsistence.)

Clinical and hospital services covered by the health service charge included in the incidental fee are limited to cases of ordinary illness. Services are provided within the limits of the professional, technical, and physical resources of the clinic. The University does not assume responsibility in cases of extended illness or for treatment of chronic diseases. Cases requiring surgery must be handled by a physician and hospital of the student's choice.

ROOM AND BOARD. The room and board fees are assessed for all students living in University-controlled dormitories and those students living in fraternity houses. All students rooming in dormitories or fraternity houses are required to take their meals in the University Commons.

A room deposit of $15.00 is payable in advance for the reservation of space in the dormitories. This amount is held as a breakage deposit until a student withdraws from the dormitory.

A student accepting dormitory space will be financially obligated to pay a full quarter's room rent. A refund of the dormitory fee will be made only upon withdrawal from the University.

OTHER FEE INFORMATION. Fees of all students are due and payable at time of registration; however, fees of full-time students may be paid one-half upon entrance and the balance one week prior to the beginning of the second half of the quarter.

Transcripts of credits will not be issued for students whose accounts are delinquent.

A fee of $2.00 is assessed each quarter to all full-time students for operation of the University Union. A $1.00 fee is added to the incidental fee assessment of part-time students.

Courses requiring special fees and music fees are shown in the Special Fee listing (Table II).

A fee of $6.50 for the Southerner (University annual) is payable on entrance the Fall Quarter by all full-time undergraduate students.

NON-RESIDENT STATUS. The Legislature of the State of Mississippi has passed the following legislation concerning non-resident status:

The board of trustees of each junior college in this state, the board of trustees of state institutions of higher learning, and the administrative authorities of each institution governed by said boards, in ascertaining and determing the legal residence of and tuition to be charged any student applying for admission to such institutions, shall be governed by the following definitions and conditions:

Legal residence of a minor. The residence of a person less than twenty-one (21) years of age is that of the father. After the death of the father, the residence of the minor is that of the mother. If the parents are divorced, the residence of the minor is that of the parent who was granted custody by the court; or, if custody was not granted, the residence continues to be that

of the father. If both parents are dead, the residence of the minor is that of the last surviving parent at the time of that parent's death, unless the minor lives with a legal guardian of his person, duly appointed by a proper court of Mississippi, in which case his residence becomes that of the guardian.

Legal residence of an adult. The residence of an adult is that place where he is domiciled, that is, the place where he actually physically resides with the intention of remaining there indefinitely or of returning there permanently when temporarily absent.

Removal of parents from Mississippi. If the parents of a minor who is enrolled as a student in an institution of higher learning move their legal residence from the State of Mississippi, the minor is immediately classified as a non-resident student.

Twelve months of residence required. No student may be admitted to any institution of higher learning as a resident of Mississippi unless his residence, as defined hereinabove, has been in the State of Mississippi for a continuous period of at least twelve (12) months immediately preceding his admission.

Residence in an educational institution not counted. A person who has entered the State of Mississippi from another state and enters an educational institution within twelve (12) months is considered a non-resident. For this reason, any period of time when such a person is enrolled in any educational institution in Mississippi may not be counted as any part of the twelve (12) months prerequisite to his admission to an institution of higher learning as a resident student. Even though he may have been legally adopted by a resident of Mississippi, or may have been a qualified voter, or a landowner, or may otherwise have sought to establish legal residence, such a person will still be considered as being a non-resident of Mississippi if he has entered this state for the purpose of enrolling in an educational institution.

Residence status of a married woman. A married woman may claim the residence status of her husband, or she may claim independent residence status under the same regulations, set forth above, as any other adult.

Children of parents who are employed by institutions of higher learning. Children of parents who are members of the faculty or staff of any institution under the jurisdiction of the board of trustees may be classified as residents during the time that their parents are such faculty or staff members without regard to the residence requirement of twelve (12) months, for the purpose of attendance at the institution where their parents are faculty or staff members.

Aliens. All aliens are classified as non-residents.

Students holding scholarships and fellowships. Non-resident students holding scholarships, fellowships, and graduate assistantships will not be required to pay the non-resident fee during the time that they hold these appointments.

REFUND POLICY. A student who officially withdraws from the University after enrollment may obtain a refund in accordance with the following:

a. A refund of 90% of incidental and special fees paid will be made to a student who withdraws within eight (8) days following the last calendar day of registration.

b. A full-time student who withdraws for any reason prior to midterm of any quarter but following eight (8) days after the last calendar day of registration will be refunded 50% of the incidental and special fees.

c. A full-time student who withdraws after midterm of any quarter will not be entitled to a refund of fees.

d. A part-time student will not be entitled to a refund of fees after eight (8) days from the last calendar day of registration.

e. A student enrolled for evening classes will receive no refund unless withdrawal is made prior to the second meeting of the class.

f. No adjustment of incidental and special fees will be made when courses are dropped after eight (8) days from date of registration.

g. Room and board fees are refunded on the basis of full weeks remaining in the quarter.

TABLE I

EXPENSES EACH QUARTER

FULL-TIME STUDENTS

Fixed Fees

Incidental fee	$104.00
Room rent—air-conditioned dormitory	100.00
Room rent—other dormitory	70.00
Room rent—Vann Hall	125.00
Board	82.00
Hillcrest Room and Board	225.00

Other Fees When Applicable

Non-resident fee	$200.00
The Southerner (Fall Quarter only)	6.50
Post Office box, per quarter	1.00

PART-TIME STUDENTS—Each quarter hour

Incidental fee—graduate student	$ 12.00
Non-resident fee—graduate student	23.00

TABLE II

SPECIAL FEES AND EXPENSES

Music Fees—Private Lessons for other than full-time music majors:

1 quarter hour per instructor	$ 19.00 per quarter
2 quarter hours per instructor	36.00 per quarter
3 quarter hours per instructor	53.00 per quarter
Each additional supervised lesson	17.00 per quarter
Orchestral or Band Instrument rental*	6.00 per quarter

Summer Conferences and Workshops;**

Administrators Workshop
Aviation Education Workshop
Library Science Workshop
Reading Conference
School Lunch Managers Workshop
Summer Music Camp

Examinations and Graduation:

Miller Analogies Test	$3.50	when applicable
Revalidation Examination	5.00	when applicable
Special Examination	3.00	when applicable
Graduation fee—		
Master's	12.00	with application for degree
Specialists Certificate	12.00	with application for degree
Doctoral	85.00	with application for degree
Thesis binding per copy	4.50	when applicable

Registration and Records:

Change of Schedule	$ 5.00	when applicable
Audit Fee—(non-credit) * * *	6.00	per quarter hour
Late Registration	10.00	full load
	5.00	partial load
Application fee for foreign students (Non-refundable)	10.00	with application
Memorandum of credits	.50	when applicable
Transcript of credits	1.00	when applicable
Science Breakage	5.00	per card

A card is purchased in the Business Office before attending first laboratory meeting. Any balance on card upon completion of course is refundable.

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*This fee applies to music majors and minors as well as to other students.

**The fees for the above conferences and workshops will be listed in the brochures published for each conference. The conference and workshop fees do not include the assessment for incidental fee where University credit is desired, nor do they include the conference charge for room and board.

***An audit fee is charged when the student does not wish to receive credit in a course. Courses such as physical education activity courses, typing, shorthand, German 73, French 73, and English 23 will be assessed at the full rate ($12.00 graduate) even though the student registers as an auditor.

AVAILABLE FINANCIAL HELP FOR GRADUATE STUDENTS

The regular graduate fellowships are supported from the University's general account budget. To maintain a fellowship, a student must have an average of B or better each quarter. The University of Southern Mississippi is also becoming the custodian of a growing number of research and other special funds available for aiding graduate students. For the latest information on this available financial help for graduate students, write to the Dean of the Graduate School, Box 24, Southern Station, Hattiesburg, Mississippi 39401.

PART FOUR

GENERAL ACADEMIC REGULATIONS AND REQUIREMENTS

GENERAL ACADEMIC REQUIREMENTS

It is reasonable to assume that a graduate student accepts full responsibility for knowing the rules and regulations of the Graduate School and the departmental requirements relevant to his individual degree program.

The **general** academic regulations and requirements governing all graduate programs are given in this Part IV of this **Bulletin. Specific** requirements pertaining to individual degree programs are outlined under each department in Part V of this **Bulletin.**

Course Work and Grading System

Courses open to graduate students are of two categories: (1) those numbered G300 to G499, which are open to advanced undergraduates as well as to graduate students; and (2) those numbered 500 or above, which are open only to graduate students.

Students registered for any course numbered from G300 to G499 are required to have graduate standing before the extra work required for graduate credit may properly be assigned or graduate credit granted. The assignment of this extra work is left to the discretion of the instructor concerned but is to approximate a fifty per cent increase in laboratory or library work over that required of undergraduate students in the same course.

All courses have certain prerequisites. A student who wishes to register for a particular course must satisfy the department concerned that he has had preparation adequate for admission to the course.

The grading system in the Graduate School is as follows:

A—Indicates that the student's work is of unusually high quality.

B—Indicates that the student's work is of high but not exceptional quality.

C—Indicates that the student has met the minimum requirements for passing the course. A student who earns more than eight (8) quarter hours in grades below B may not be considered as a candidate for a degree. Retaking a course will not remove this disability.

F—Indicates that the student has failed the course. A student who accumulates more than four (4) quarter hours of F grades will not be considered as a candidate for a degree. Retaking a course will not remove this disability.

An average of B or better is required of all candidates for graduate degrees.

In computing averages, a C must be balanced by one A, and an F by three A's of equal graduate credit.

The one year limitation for an "Incomplete" to be removed does not apply to theses. The general regulation that degree work must be completed within a six-year period does apply.

Definition of a Full-Time Student

I. The normal load for a full-time graduate student shall be twelve (12) quarter hours; consequently the normal time required for a master's degree will be four quarters.

II. The minimum load for a full-time graduate student shall be nine (9) quarter hours for the purpose of living in Pine Haven, using the services of the clinic, in answering Selective Services inquiries, and other such requirements. Students who lack only the dissertation may use nine (9) quarter hours to be considered a full-time student.

III. The incidental fee for the full load of nine (9) quarter hours will be the same amount as paid by graduates for a normal load (12 hours).

IV. The courses numbered 597, 697, and 797 - Independent Study and Research - may be taken for any amount of credit with the exception that students who are not in residence but who are actively working on a thesis or dissertation and consulting with the major professor or making use of the library or other University facilities must enroll for four (4) quarter hours each quarter.

Residence and Credit Hour Requirements and Time Limitations

1. **For Master's Degrees:** A student must earn a minimum of thirty (30) quarter hours of the forty-six (46) hours required for a degree on the Hattiesburg campus of the University.

Time Limitation: The student must complete the master's degree within six calendar years from the date of initial enrollment as a graduate student. Six years is the maximum age allowed for graduate credits toward a master's degree. If more than six years are needed to complete requirements, the Dean of the Graduate School, under very unusual extenuating circumstances, may revalidate over-age credit hours if the original credit was earned at the University of Southern Mississippi and if the dean of the college or school concerned approves the revalidation. This revalidation is secured by the student's successfully passing a special examination on the course. However, any student who fails to complete his master's degree program within the six-year time period becomes subject to any changes in degree requirements made at any date six years prior to his graduation. The fee charged for the special revalidation examination is $5.00 per course. This fee is to be paid before the revalidation examination. Over-age extension courses can not be revalidated.

2. **For the Educational Specialist Certificate:** The residence requirement for the Educational Specialist Certificate is a minimum of three full-time quarters presupposing the successful completion of forty-six (46) quarter credit hours beyond the master's degree. One of the three full-time quarters must be on the Hattiesburg campus.

3. **For Doctoral Degrees:** Candidates for doctoral degrees must earn a minimum of 118 quarter hours of credit beyond the baccalaureate degree, or seventy-two (72) quarter hours of credit beyond the master's degree. Candidates for doctoral degrees must earn a minimum of forty-eight (48) quarter hours on the Hattiesburg campus.

Courses taken above the master's degree or its equivalent which will fit into the degree program but which are six or more years old at the time of admission to the advance graduate program may be counted toward meeting degree requirements upon the recommendation of the department chairman and with the approval of the Dean of the Graduate School.

The residence requirement for a doctoral degree consists of three consecutive quarters during which the student earns a minimum of twelve (12) hours of credit for each of the three quarters. A student who holds a double fellowship or an assistantship may fulfill this residence requirement by earning a total of thirty-six (36) hours of credit during consecutive quarters on the Hattiesburg campus of the University. The summer quarter may be counted in this sequence at the option of the candidate. The total of hours

of course work taken and of hours taught by a fellow or assistant in any given quarter cannot exceed seventeen (17). A student may not fulfill the residency requirement if he is employed in a regular position.

The degree requirements must be completed within a period of six years after the student has been admitted to advanced graduate standing at the University of Southern Mississippi.

Transfer of Credit: Transfer of credit for graduate work done at other institutions must be approved by the department chairman, the dean concerned, and by the Dean of the Graduate School. Final evaluation of and acceptance of transfer credit will not be made until the student has been in residence for one quarter. Transfer of credit for doctoral degree programs is limited to not more than six (6) semester hours or nine (9) quarter hours beyond the master's degree. Exceptions to this restriction may be made with the approval of the dean concerned and the Dean of the Graduate School.

GENERAL REQUIREMENTS OTHER THAN RESIDENCE AND CREDIT HOUR

1. **The Graduate Record Examination:** It must be re-emphasized that completion of the Graduate Record Examination is required before a student is admitted to the Graduate School. During the 1968-1969 academic year the Graduate Record Examination will be given on the University of Southern Mississippi campus on the following dates, with registration deadlines as indicated:

Testing Dates	Registration Deadlines
October 26, 1968	October 5, 1968
December 14, 1968	November 23, 1968
January 18, 1969	December 28, 1968
April 26, 1969	April 5, 1969
July 12, 1969	June 21, 1969

Forms for registering for the Graduate Record Examination will be available in the office of the Dean of the Graduate School after July 1, 1968. The candidate is responsible for sending the application with fee to the Graduate Record Examinations, P. O. Box 955, Educational Testing Service, Princeton, New Jersey 08540, before the above listed registration deadlines.

2. **Requirements for Master's Degrees:** In addition to the foregoing general requirements, candidates for master's degrees must comply with the following regulations. Specific requirements in addition to these may be required by particular departments (see Part V of this **Bulletin**).

Thesis Requirements: Throughout this **Bulletin** references to Plan I in the curricula leading to a Master of Education degree or a Master of Science degree for teaching in a subject field mean that a thesis will be required in addition to other requirements. Students who plan to work toward a higher degree after completion of a master's degree should choose to write a thesis.

Plan II references in the curricula leading to a Master of Education or a Master of Science degree for teaching in a subject field mean that a thesis is not required.

If a thesis is submitted as partial fulfillment of the requirements for a degree, the following regulations must be met:

a. The thesis must be submitted to the advisory committee in final draft during the quarter prior to the expected date of graduation. The student's advisory committee will pass on the final acceptance or rejection of the thesis.

b. Four copies of the thesis must be furnished the Dean of the Graduate School. The first copy must be typewritten on 16-pound (100% rag) bond paper and the second, third, and fourth copy on bond paper of at least 13-pound weight (at least 25% rag). The student will follow the latest edition of Kate L. Turabian, A MANUAL FOR WRITERS OF TERM PAPERS, THESES, AND DISSERTATIONS.

c. The student is responsible for putting each copy of the thesis in a separate manila envelope with an additional title page taped to the front of each envelope and each copy marked as to first, second, third, and fourth copy.

d. The thesis must be presented along with the receipt for the binding fee to the Dean of the Graduate School by the chairman of the student's advisory committee at least four weeks before the degree is to be conferred. The fee for binding the thesis is $4.50 per copy, regardless of the number of copies the student wishes to be bound, and is payable at the Business Office.

e. The thesis must show independent thinking, original investigation, mastery of subject-matter, and ability to do research in the field of major interest.

Other Requirements:

The following regulations are to be followed explicitly:

(1) If a student is pursuing a master's degree for which a reading knowledge of a foreign language is required, he should make arrangements for meeting this requirement soon after beginning his graduate study. If the student is scheduled to receive his master's degree in June or August, he must apply in the office of the Dean of the Graduate School for his foreign language examination no later than the preceding October 15. French, German, and Spanish proficiency examinations are administered by the Department of Foreign Languages on the second Friday in November, February, May, and July. This requirement must be completed before a candidate can qualify for his final comprehensive examination. No re-examination is possible until a candidate has given indication of remedial work.

(2) If a master's degree candidate has not had an English writing proficiency test on the undergraduate junior or senior level, he will be required to take an English writing proficiency test at the University of Southern Mississippi. This test is administered by the Department of English.

(3) If a master's degree candidate has done graduate work elsewhere and wishes to transfer it to the University of Southern Mississippi he must supply the Director of Admissions with an official transcript of his work. This work in all cases is to have been done within the **six-year** period allowed for the degree program.

(4) The usual load for a part-time student with a full-time position is four (4) hours. A maximum of eight (8) hours may be carried provided the faculty adviser and department chairman approve. (Teachers should note that the State Department of Education allows a full-time teacher to take only four (4) quarter hours per quarter.)

(5) Seventeen (17) quarter hours is the maximum load for a full-time graduate student. Thirteen (13) quarter hours is the maximum load for a graduate fellow if he teaches one undergraduate class or its equivalent. **Nine (9) quarter hours** is the maximum load for a graduate fellow if he teachers two undergraduate classes or their equivalent.

(6) The student who is a candidate for a master's degree must file his application for degree with the Registrar by the end of the quarter prior to the one in which he expects to graduate. The graduation fee of $12.00 must be paid at the time the application is submitted.

(7) No regular faculty member of the University of Southern Mississippi may take a master's degree in this institution.

(8) In those areas requiring a minor, the minor shall consist of sixteen (16) hours.

(9) An undergraduate major or its equivalent shall constitute the basis for a graduate major in any field. A student who desires to major in any teaching area other than school administration, secondary education, or elementary education must have a minimum of twelve (12) quarter hours of appropriate undergraduate work in education and psychology. The student's attention is called to the undergraduate prerequisites, if any, listed under the course patterns for each major.

(10) Work taken more than six years before the date at which the master's degree is expected may not be used to count for credit toward that degree.

(11) A minimum of twenty-four (24) quarter hours of the student's work exclusive of the thesis must be in courses numbered 500 and above.

(12) In master's degree programs, graduate credit from other accredited institutions is acceptable for as much as nine (9) quarter hours provided it is in the chosen field or fields of the student's work. A student may not take extension courses to count toward his degree if he has transferred nine (9) quarter hours from another institution. As many as eight (8) quarter hours may be taken by extension provided the student has no transfer credit from another institution counted toward his degree.

(13) No graduate extension work will be accepted in meeting requirements for graduate degrees except where taught by a member of the graduate faculty of the University of Southern Mississippi.

(14) A committee of at least three, appointed by the Dean of the Graduate School on the recommendation of the chairman of the department in which graduate work is being done, will serve as the student's advisory committee. The student's major professor will usually serve as chairman of his advisory committee.

(15) In addition to the regular course examinations, final comprehensive examinations will be required of candidates for the master's degree. The major department will determine whether an oral comprehensive, a written comprehensive, or both will be required. The written comprehensive, if required, will be prepared in the major department. The examination will be general, will cover the area of the major field, and will last approximately three hours. The examination will be scheduled by the major department with the approval of the dean of the appropriate school. The examination will be administered prior to the seventh week of the quarter in which the student expects to receive the degree. If an oral examination is required, an examining committee, appointed by the dean of the Graduate School on the recommendation of the department chairman, will conduct the examination. This committee will represent both the major and minor fields. Written notice of the appointment of the examining committee will be sent to the Dean of the Graduate School. Also, the department chairman will send written notices of the time and place of the oral examination to the candidate and to each member of the committee. The oral examination may be given any time during the last quarter of attendance but not later than the seventh week

of the quarter in which the student receives his degree. The results of both written and oral comprehensive examinations will be supplied to the dean of the school involved, to the office of the Registrar, and to the office of the Dean of the Graduate School. A student who does unsatisfactory work on the comprehensive examination will not be permitted to take the examination again until the next regular time. The comprehensive examination may be retaken only once.

3. **Requirements for Doctoral Degrees:** The University of Southern Mississippi offers the Doctor of Education degree and the Doctor of Philosophy degree in the School of Education and Psychology; the Doctor of Philosophy degree in the College of Arts and Sciences; and the Doctor of Music Education and the Doctor of Philosophy degree in Music Education in the School of Fine Arts.

Work leading to each of these doctoral degrees is designed to give the candidate a thorough and comprehensive knowledge of his professional field or subject discipline, and to develop in him the ability to do original and scholarly research at an advanced level. Although certain residence and course requirements must be met, it is necessary that candidates for doctoral degrees complete with high distinction a period of extended study and investigation during which they gain control of materials in a chosen field, master methods of advanced study, and illustrate these methods through independent and original research of enduring value.

Equally high standards are maintained for the Doctor of Philosophy, Doctor of Education, and Doctor of Music Education degrees.

The Doctor of Philosophy degree is granted to students who have mastered a definite field of knowledge providing familiarity with what has been done in that field of scholarship and its potentialities for further exploration. These students must demonstrate a capacity to do original and independent scholarly investigation and must have the ability to apply their field of specialization to the larger domains of knowledge and understanding.

The Doctor of Education degree is designed for those students who show outstanding promise of becoming superior administrators and teachers. These students frequently are able in their dissertations to apply known principles to practical situations, a project of more professional value to them than the preparation of a dissertation with the objective of establishing new principles or truths.

The following are minimum requirements for any doctoral degree. Additional requirements may be made by the department or the college, school, or division concerned.

Upon admission to advanced graduate study in a department of the University, the department chairman will appoint a major professor who will guide the work of the student until the Dean of the Graduate School appoints the student's advisory committee Appointment of the advisory committee will follow and be contingent upon the student's successfully passing the qualifying entrance examination. When the student's advisory committee is appointed he, with his major professor, will develop a doctoral program and submit it to the full committee for approval. Copies of the program as approved by the student's committee will go to the department chairman, dean of the college or school, and Dean of the Graduate School for their approval. Each program will consist of a major and a minor. The minor may consist of courses from a number of related areas.

Members of the faculty of the University of Southern Mississippi above the rank of instructor can not become candidates for a doctoral degree at this institution. They may, however, enroll for graduate courses. Faculty

members of the rank of instructor may become candidates for doctoral degrees at the University of Southern Mississippi on the same terms as any other advanced graduate student candidates.

Qualifying Entrance Examination: During the first or second quarter of the student's enrollment, the department will require the student to take a written and/or oral qualifying entrance examination both to judge the student's fitness to pursue doctoral work and to give guidance to the advisory committee in planning the student's program of studies. Results will be reported to the Dean of the Graduate School. The qualifying examination may be retaken only once.

Miller Analogies Test: The candidate for the doctoral degree in the School of Education and Psychology is required to take the Miller Analogies Test before he may be admitted to candidacy. This test is administered by the Department of Psychology on the dates indicated in the University Calendar. The fee for taking this test is $3.50 which is payable in the Business Office. The student should register for the test in the Psychology Department at least 10 days before the test is to be administered. The results of the test are reported to the Dean of the Graduate School.

Language and Statistics Requirements: The following option will satisfy the foreign language requirement for the Doctor of Philosophy degree if permitted:
(1) Proficiency in two foreign languages, the languages to be determined by the major department, or (2) proficiency in one foreign language, and either the completion of a twelve (12) hours minor outside the field of the major (118 hours plus 12) or demonstrated proficiency in statistics (not to be counted in the 118 hour requirement). The Graduate School approves French and German as the languages to be offered in fulfillment of this requirement, but other foreign languages may be substituted upon the recommendation of the departmental chairman and the approval of the Dean of the Graduate School.

The student's proficiency in the languages is to be determined by the Department of Foreign Languages in accord with the following procedures:

1. Application for the Foreign Language Reading Knowledge Examination must be made through the office of the Dean of the Graduate School. Such examinations will be administered by the Department of Foreign Languages on the second Friday in November, February, May, and July. The application to take the examination must be submitted at least ten days prior to the scheduled date of the examination.
2. If the student is to be prepared adequately for the examination, he should contact his major professor at least three months prior to the scheduled date of the test so that the material which is to be translated can be selected and the student can begin his review.
3. The examination is to be written, and it is to be divided into two parts, each of which is to have a time limit of one hour. The first part is to be taken **without** the aid of a dictionary from material which has been assigned to him in advance and with which he is to be familiar. The second part is to be taken **with** the aid of a dictionary from unfamiliar material (approved by the Department of Foreign Languages and the candidate's supervising professor).
4. The Department of Foreign Languages will notify in writing the Dean of the Graduate School, the Registrar, and the departmental chairman of the results of the examination.
5. If the candidate passes the foreign language examination for the master's degree, this may count as his second foreign language for the doctorate.
6. No language re-examination will be given until a candidate has presented sufficient evidence of remedial work in the language.

Proficiency in statistical techniques of research is required of all candidates for the Doctor of Education degree. This requirement must be fulfilled before the student can be admitted to candidacy for the degree.

To recapitulate: Admission to the Graduate School does not automatically imply admission to candidacy for the degree.

Before the student can be admitted to candidacy for the doctorate he must satisfy the following qualifications: (1) successfully complete the qualifying entrance examination; (2) successfully complete the Graduate Record Examination; (3) successfully complete the language and/or statistics requirement; (4) complete the Miller Analogies Test if required; (5) present a dissertation prospectus that has been approved by the advisory committee. Recommendations for admission to candidacy will be submitted by the departmental chairman through the dean of the college or school to the Dean of the Graduate School for approval.

Dissertation: The dissertation topic must be approved by the student's major professor and advisory committee. The dissertation must be an original contribution to knowledge in the chosen field and should be registered with the appropriate learned society.

The dissertation must be completed in rough draft and be available to the advisory committee one quarter in advance of the expected date of graduation. Not later than **forty-five days** before the date of graduation the candidate must submit to the major professor the original and three copies of the completed dissertation in its final form. Four signed copies of the dissertation and three copies of the abstract must be presented to the Dean of the Graduate School at least four weeks prior to the graduation date. The first copy must be typewritten on 16-pound (100% rag) bond paper and the second, third, and fourth copy on bond paper of at least 13-pound weight (at least 25% rag). The dissertation must comply with the rules of form as prescribed by Kate L. Turabian's, A MANUAL FOR WRITERS OF TERM PAPERS, THESES, AND DISSERTATIONS. The use of other style sheets must be approved by the Dean of the Graduate School.

An abstract of not more than 600 words must be supplied in three copies at the time of the submission of the dissertation to the major professor.

The fees for binding and microfilming must be paid to the Business Office and receipts for the same must be presented to the office of the Dean of the Graduate School.

If the candidate wishes to copyright his dissertation, he may inquire about details in the office of the Dean of the Graduate School.

Comprehensive Examination: The purpose of the comprehensive examination, written and/or oral, is to check the student's proficiency in his major and minor fields. This examination will come at or near the completion of the student's course work. The examination will be administered by the department and the results will be reported to the dean of the college or school and to the Dean of the Graduate School.

Final Oral Examination: After the dissertation has been accepted, but at least four weeks before the candidate is scheduled to receive his degree, a final oral examination on the dissertation and related fields will be conducted by the student's advisory committee and other faculty members designated by the Dean of the Graduate School. The examination will be open to any member of the graduate faculty. The chairman of the advisory committee will be responsible for scheduling the final oral examination and for reporting the results to the Dean of the Graduate School.

PART FIVE

DEPARTMENTAL REQUIREMENTS AND DESCRIPTIONS OF COURSES

COLLEGE OF ARTS AND SCIENCES

SCHOOL OF BUSINESS ADMINISTRATION

SCHOOL OF EDUCATION AND PSYCHOLOGY

SCHOOL OF FINE ARTS

DIVISION OF HOME ECONOMICS

COLLEGE OF ARTS AND SCIENCES

Claude E. Fike, Dean

Charles R. Brent, Assistant Dean

The College of Arts and Sciences offers the Doctor of Philosophy degree in biology, chemistry, English, geography, history, mathematics, political science, science education, and speech and hearing sciences.

The Master of Arts and Master of Science degrees are offered in biology (including zoology, botany, and microbiology), chemistry, combined sciences (a cooperative offering of the Departments of Biology, Chemistry, Mathematics, and Physics), communication, English, foreign languages, geography, history, mathematics, philosophy, physics, political science, science education, social science (with several departments cooperating), sociology, and speech and hearing sciences.

With the approval of the major professor and the chairman of the major department, the student may choose a graduate minor from any of the above-listed fields. A student in the College of Arts and Sciences may also choose a graduate minor in education or psychology from the School of Education and Psychology, or in economics from the School of Business Administration, always subject to the approval of the major professor and the chairman of the major department.

Various departments of the College of Arts and Sciences also participate with the School of Education and Psychology in programs leading to the Master of Education degree.

Since the master's degrees in combined sciences or in social sciences are normally intended for teachers, students interested in these degrees should consult the Dean of the College of Arts and Sciences and the Dean of the School of Education and Psychology, who will jointly arrange suitable degree programs with the appropriate department chairmen.

For general academic requirements and regulations governing each of these degree programs, see Part IV of this **Bulletin.**

For **specific** degree requirements of each department, consult the appropriate department in this Part V of this **Bulletin.**

DEPARTMENT OF BIOLOGY (BIO)

J. Fred Walker, Chairman

Cliburn Crozier Fish Fischer Gunter Harrises Lewis Smith Stocks Yarbrough

Master's Degree Programs

The Department of Biology participates in programs leading to the Master of Arts, Master of Science, Master of Education, and Master of Science in combined sciences degrees. For the Master of Arts, Master of Science and Master of Education degrees, forty-six (46) graduate hours of credit are required, twenty-four (24) of which must be courses numbered above 500. For the Master of Arts degree, the student must take sixteen (16) graduate hours in an academic minor field which is approved by the Department, must demonstrate proficiency in a foreign language, and write a thesis. For the Master of Science degree the student may elect a minor in any field approved by the Department. Within the Department the student may major in biology, zoology, botany, microbiology, or marine biology.

With permission of his graduate advisory committee the student may also elect a minor from one of the five subdivisions enumerated above. The minor requires a minimum of sixteen (16) quarter hours credit in graduate courses listed in the field of the minor.

The general requirements for the Master of Arts and the Master of Science degrees are found in Part V of this **Bulletin.** In addition to the general requirements, the Department of Biology requires a thesis for both degrees, with the exception of those who take the Master of Science in combined sciences, the special requirements of which are listed below. The form of the master's thesis in biology must comply with the A.I.B.S. Style Manual for Biological Journals and with specific instructions concerning requirements as to margins, quality of paper, etc., as per directive obtained from the Dean of the Graduate School.

The Department participates in offering a Master of Science with a major in combined sciences as indicated above. A program of courses for students who elect this degree must be selected in consultation with the chairman of the department concerned. The degree is designed to meet the needs of teachers and prospective teachers of science in the secondary schools. In general the requirements for the degree are as follows:

1. A total of forty-six (46) quarter hours credit (the student may be required to take some undergraduate courses in areas of weakness).
2. Twelve (12) quarter hours in education including FED 501 and FED 504.
3. Not less than twelve (12) nor more than twenty-four (24) quarter hours may be taken in either biology, chemistry, geology, or physics.

Doctoral Programs

The Department of Biology offers the Doctor of Philosophy degree with majors in marine biology and in zoology. The prospective degree candidate is referred to Part IV of this **Bulletin** for the general requirements for the degree of Doctor of Philosophy.

The minimum residence requirement for the doctor's degree in the Department of Biology is two academic years (six quarters) beyond the master's degree or three years of graduate study, one of which, ordinarily the second, must be spent in continuous residence at the University of Southern Mississippi. Work at the Gulf Coast Research Laboratory is recognized as resident work.

The form of the doctoral dissertation must comply with the A.I.B.S. Style Manual for Biological Journals and with specific instructions concerning requirements as to margins, quality of paper, etc., obtained from the Dean of the Graduate School.

All graduate students pursuing a graduate degree are required to teach a maximum of a 4-hour laboratory per week each quarter of the regular academic year.

COURSE DESCRIPTION (BIO)

All undergraduate courses that may be allowed for graduate credit are numbered in the G-400's. All graduate courses are numbered in the 500's, 600's, or 700's and may NOT be taken by undergraduates.

G-400—**Protozoology.** Four hours.

Prerequisites: BIO 101, 102, and 103.

Two theory periods and two 2-hour laboratory periods per week.

Studies are made of free-living and parasitic protozoa concerning their structure and life histories. Vital stains and permanent mounts are utilized.

G-401—**Genetics.** Four hours.

Prerequisites: BIO 101, 102, and 103.

A study of fundamental problems of inheritance and the cytological mechanics of heredity. The student will be required to make periodic reports on current literature in the field of genetics.

G-403—**Food Bacteriology.** Four hours.

Two hours lecture and two 2-hour laboratory periods per week.

Prerequisites: BIO 339, 340, and organic chemistry, or consent of instructor.

Microorganisms important in food; preservation and spoilage of food; food in relationship to diseases.

G-405—**Public Health Bacteriology.** Four hours.

Two hours lecture and four hours laboratory per week.

Prerequisites: BIO 339 and 340 and consent of instructor.

Schemes for isolation and identification of major groups.

G-406—**Virology.** Four hours.

Prerequisites: BIO 339, 340, and organic chemistry.

A study of representative bacterial plant and animal viruses with major emphasis on bacteriophages.

G-409—**Introductory Phycology.** Four hours.

Two hours lecture and four hours laboratory per week.

Prerequisite: BIO 104 or 339.

Consideration of the algae; nature, position, classification and importance. Laboratory devoted to general procedures of cultivation, identification, and morphology.

G-410—**Introductory Morphology of Plants.** Four hours.

Three hours lecture and two hours laboratory per week.

Prerequisite: Advanced standing in botany.

Laboratory devoted to study of extant and fossil vascular plants.

G-411—**Plant Ecology.** Four hours.

Prerequisite: Advanced standing in botany.

Relationship of plants to their environment.

G-412—**Plant Physiology I.** Four hours.

Two theory and two laboratory periods per week.

Prerequisite: General botany (Botany 104 or its equivalent). General chemistry and organic chemistry recommended.

Studies of basic physiological processes of green plants: greenhouse laboratory work.

G-413—**Plant Physiology II.** Four hours.

Prerequisite: BIO G-412.

A continuation of BIO G-412.

G-415—**Cellular Physiology II.** Four hours.

Prerequisite: BIO G-414.

A continuation of BIO G-414.

G-417—**Taxonomy of Higher Plants.** Four hours.

Prerequisites: BIO 101 and 104.

Two theory periods and two 2-hour laboratory periods per week.

A study of classification of both wild and cultivated seed plants.

G-418—**Field Zoology: Macroscopic Invertebrates.** Four hours.

One hour lecture and six hours laboratory per week.

Prerequisites: BIO 101, 102, and 103.

Collection, preservation, identification, and general biology of local, macroscopic, marine, fresh-water and terrestrial invertebrates. Field work as needed.

G-419—**Field Zoology: Microscopic Invertebrates.** Four hours.

One hour lecture and six hours laboratory per week.

Prerequisites: BIO 101, 102, and 103.

Collection, preservation, identification, and general biology of local, microscopic, marine, fresh-water and terrestrial invertebrates. Field work as needed.

G-420—**Soil Bacteriology.** Four hours.

Two hours lecture and two 2-hour laboratory periods per week.

Prerequisites: BIO 339, 340, and organic chemistry, or consent of instructor.

Study of soil microflora, emphasis on Nitrogen-Carbon cycle in environment.

G-421—**Embryology I.** Four hours.

Two theory periods and two 2-hour laboratory periods per week.

Prerequisites: BIO 101, 102, 103, 301, and 302.

The embryological development of vertebrates, especially the frog, will be studied. Maturation, fertilization, cleavage, origin and development of germ layers, histogenesis and organogenesis are considered.

G-422—**Embryology II.** Four hours.

Two theory periods and two 2-hour laboratory periods per week.

Prerequisite: BIO G-421.

A continuation of BIO G-421

Development of vertebrates, especially the chick and the pig, will be studied. Histogenesis and organogenesis of the chick, pig, and human are considered.

G-423—**Plant Anatomy.** Four hours.

Two hours lecture and four hours laboratory per week.

Prerequisite: BIO 104.

A study of the anatomy of recent and fossil plants.

G-424—**Histology.** Four hours.

Three lecture periods and two hours laboratory per week.

Prerequisites: 24 hours of biology.

A thorough study of the principal tissues and organs of the body.

G-425—**Introductory Mycology.** Four hours.

Two hours lecture and four hours laboratory per week.

Prerequisites: Bacteriology 339 and 340 or consent of instructor.

A study of the general classification of yeast and molds, their physiology and biochemical activities.

G-427—**Biogeography.** Two hours.

Two lectures per week.

A descriptive and analytical study of the distribution of plants and animals.

G-428—**Advanced Genetics.** Four hours.

Prerequisites: BIO 101, 102, 103, 401.

A continuation of BIO 401. Study of phenotypic effects of genes, of radiations and other mutagens, population genetics, speciation, microbial genetics, and regulations of gene motion.

G-430—**Mammalian Physiology I.** Four hours.

Three hours lecture and one two-hour laboratory period per week.

Prerequisites: BIO 101-103, BIO 228 or 301-302.

A basic course in mammalian physiology. An in-depth treatment of the major physiological systems of the normal mammal; emphasis on the interrelationship of various system, and on the regulation of the internal environment.

G-432—**Mammalian Physiology II.** Four hours.

Prerequisite: BIO G-430.

Continuation of Mammalian Physiology I.

G-433—**Medical Entomology.** Four hours.

Two hours lecture and four hours laboratory per week.

Prerequisite: BIO G-452.

The study of the various species of arthropods of medical importance.

G-435—**Mammalogy.** Four hours.

Two hours lecture and four hours laboratory and field work per week.

Prerequisite: BIO 301 or 302 recommended.

Morphology, taxonomy, life history, distribution, evolution, and adaptations of mammals.

G-436—**Interpretation of Biological Data.** Four hours.

Prerrequisites: MAT 103, BIO 401.

Techniques applicable to the design and interpretations of biological research data.

G-437—**Ornithology.** Four hours.

Two hours lecture and four hours laboratory and field work per week.

Prerequisite: BIO 301 or 302 recommended.

Morphology, taxonomy, life history, distribution, evolution, and adaptations of birds.

G-438—**Botany I.** Four hours.

Two theory periods and two 2-hour laboratory periods per week.

Prerequisites: BIO 101 and 104.

A study of gross and microscopic structures, physiology, life cycles, and economic significance of the Thallophytes.

G-439—**Botany II.** Four hours.

Two theory periods and two 2-hour laboratory periods per week.

Prerequisite: BIO G-438.

A study of Bryophytes and Pteridophytes.

G-44O—**Physiological Genetics.** Four hours.

Prerequisite: BIO 401.

Recent advances in physiological genetics. Attention will be directed to literature on the nature and action of genes and to the interaction of heredity and environment in the expression of the characteristics of higher organisms.

G-441—**Water and Sewage.** Four hours.

Two hours lecture and two 2-hour laboratory periods per week.

Prerequisites: BIO 339, 340, and organic chemistry, or consent of instructor.

Control of purity water supply: sources and types of pollution and control of sewage disposal.

G-444—**Bacteriology.** Four hours.

Two hours lecture and four hours laboratory per week.

Prerequisites: BIO 339, 340, and organic chemistry, or consent of instructor.

Special emphasis is placed on molds, yeasts, and bacteria associated with disease.

G-448—**Comparative Animal Physiology I.** Four hours.

Two hours lecture and four hours laboratory per week.

Prerequisites: 16 hours of biology, 12 hours of chemistry, and 8 hours of mathematics.

G-449—**Comparative Animal Physiology II.** Four hours.

Prerequisite: BIO G-448.

A continuation of BIO G-448.

G-450—**Principles of Nomenclature.** Two hours.

Prerequisites: BIO 101, 102, and 103 and BIO 360, 417, or 466.

Discussions and problems in botanical and zoological nomenclature.

G-452—**Entomology.** Four hours.

Prerequisites: BIO 101, 102, and 103.

This course will deal with the principal groups of insects. Life habits, structural features, life histories, and classification of certain species of economic and general significance will be considered.

G-466—**Ichthyology.** Four hours.

Two hours lecture and four hours laboratory per week.

Prerequisites: BIO 101, 102, 103.

Collection, preservation, and indentification of local species of fishes and fish-like vertebrates, with primary emphasis on fresh water forms. Field work when possible.

G-468—**Parasitology I.** Four hours.

Two hours lecture and four hours laboratory per week.

Prerequisites: BIO 101 and 102.

The epidemiology, morphology and importance of animal parasites, with emphasis on those affecting man.

G-469—**Parasitology II.** Four hours.

Two hours lecture and four hours laboratory per week.

Prerequisite: G-468 or consent of instructor.

A continuation of G-468.

G-471—**Immunology and Serology.** Four hours.

Two lectures and two 2-hour laboratory periods per week.

Prerequisite: G-405

Studies of infection, resistance, types of immunity, hypersensitivity, and major techniques of diagnostic immunological reactions.

G-479—**Introduction to Biological Oceanography.** Four hours.

Two hours per week.

Prerequisites: G-481 and G-482.

Introductory study of fundamentals of oceanography to acquaint the student with major ocean basins and their characteristic topography. Physical and chemical characteristics of sea water will be examined from biological viewpoint. The course is intended as prerequisite for BIO 515.

G-481, G-482, G-483—**Ecology.** Twelve hours.

Two theory periods and two 2-hour laboratory periods per week.

Prerequisites: An acceptable background in biology, chemistry, and physics.

An intensive advanced study of the relationship between organisms and their environment.

G-484—**Limnology.** Four hours.

Prerequisites: BIO 101, 102, 103; G-481 and G-482 strongly recommended.

A study of the physical, chemical, and biological conditions in lakes, ponds, and streams. Lectures, laboratories, and field trips. Spring.

G-485—**History of Biology.** Two hours.

Prerequisites: 36 quarter hours of biology.

Lectures and readings concerning the development and organization of biological sciences. The development of biological principles and theories will be emphasized. For seniors and graduate students only.

G-492—**Biological Problems I, II, III.** Two hours each.

Given only by special arrangement.

A course in special techniques, designed for majors with a need for certain basic biological techniques as tools for future research.

502—**Taxonomy of the Flowering Plants for High School Teachers.** Four hours.

Eight hours lecture-laboratory and/or field trips per week.

A course especially designed for high school teachers with emphasis on plant identification and environmental relationships.

506—**Physiology of Bacteria.** Four hours.

Two hours lecture and two 2-hour laboratory periods per week.

Prerequisites: BIO 339, 340, and organic chemistry.

Introduction to concepts of bacterial nutrition, metabolism, adaptation and genetics as related to growth and environment.

507—**Advanced General Botany for High School Teachers.** Four hours.

Eight hours laboratory-discussion and/or field trips per week.

Designed specifically to acquaint high school biology teachers with the utilization of local flora in teaching high school biology and providing the teacher with information on general physiology and ecology of seed plants.

508—**Medical Mycology.** Four hours.

Two hours lecture and four hours laboratory per week.

Prerequisite: BIO G-425.

Consideration of the fungi of medical significance. Laboratory devoted to cultivation and identification.

511—**Vertebrate Biology for High School Teachers.** Four hours.

Eight hours lecture-laboratory and/or field work per week.

Designed specifically for teachers of biological sciences who may have failed to receive training in the biology of the vertebrates during their undergraduate years. Techniques of collection and preservation of specimens are emphasized.

512—**Cytology I.** Four hours.

Four hours lecture per week.

Prerequisite: 12 hours of chemistry, 12 hours of physics, or permission of the instructor.

A study of cells, their organelles, metabolism, growth, differentiation, and reproduction.

513—**Cytology II.** Four hours.

Four hours lecture per week.

Prerequisite: BIO 512.

A continuation of BIO 512.

515—**Biological Oceanography.** Four hours.

Two hours lecture and four hours laboratory per week.

Prerequisite: BIO 482 or G-482.

A consideration of the sea as a biological environment, of the organisms which inhabit the sea, and of the interrelationships existing between marine organisms and the physical, chemical, and biological aspects of their environments. (Three all-day Saturday field trips.)

520—**Advanced Herpetology.** Four hours.

Two hours lecture and four hours laboratory per week.

Prerequisites: BIO 360 and permission of instructor. BIO 301, 302, recommended.

Advanced taxonomic considerations: morphology, physiology, embryology; ecology, habits, natural history; economic herpetology.

521—**Advanced Systematic Herpetology.** Four hours.

Intensive lecture-laboratory course in systematic and distributional problems. Open only to especially qualified advanced students upon permission of instructor.

525—**Advanced Ichthyology.** Four hours.

Two hours lecture and four hours laboratory per week.

Prerequisites: BIO 466 or G-466 and permission of instructor. BIO 301, 302, recommended.

Advanced taxonomy of fresh-water and marine fishes; morphology, physiology, embryology; ecology, habits, natural history; economic ichthyology.

526—**Advanced Systematic Ichthyology.** Four hours.

Intensive lecture-laboratory course in systematic and distributional problems. Open only to especially qualified advanced students upon permission of instructor.

527—**Speciation.** Two hours.

Prerequisite: BIO 401 or G-401.

A study of the contributions of the various fields of biology to the modern concepts of phylogeny and the origin of the species.

530—**Helminthology.** Four hours.

Two hours lecture and four hours laboratory per week.

Prerequisites: BIO G-468 and G-469.

A study of the morphology and life cycle of helminthes. Also collecting, staining, and identifying helminthes from vertebrates of this area.

532—**Parasite Physiology.** Four hours.

Two hours lecture and four hours laboratory per week.

Prerequisites: BIO G-414 and G-415.

A study of the theories and laboratory procedures involved in physiological parasitology. Methods of in-vitro cultures and qualitative and quantitive techniques employed in the laboratory.

550—**Advanced Taxonomy of Seed Plants.** Four hours.

Two hours lecture and four hours laboratory per week.

Prerequisites: BIO 104 and 417.

A study of classical and modern plant taxonomy including experimental approaches to problems in taxonomy dealing with the species and infraspecific taxa and the various methods employed to analyze and delimit these. Laboratory will be devoted to the classification of seed plants.

552—**Biology I. Analytical Methods in Biological Research.** Two hours.

Two hours laboratory and lecture work combined.

Prerequisites: Inorganic and organic chemistry, 36 quarter hours biological science. One year of physics also recommended.

This course is for graduate students only in which the students will be taught to use some of the more modern instruments for biological research such as the flamephotometer, a recording spectrophotometer, Warbug apparatus, etc.

552—**Biology II. Analytical Methods in Biological Research.** Two hours.

Continuation of above.

554—**Dynamics of Experimental Populations.** Four hours.

Prerequisites: BIO 401-G401, BIO 428-G428, BIO 589, or permission of instructor.

Review of biological concepts associated with phylogeny with particular attention to factors associated with changes in population structure leading to the formation of species.

560—**Topics in Marine Biology.** Two hours.

Prerequisites: BIO 101, 102, 103; CHE 301, 302, 303.

Emphasis will be placed on topics concerning the physiological and biochemical processes peculiar to the marine environment which would not be available to the student in more typical courses.

563—**Fisheries Biology.** Four hours.

Two hours lecture and four hours laboratory or field work per week.

Prerequisites: BIO 466 or G-466. BIO 484 or G-484 highly recommended. Permission of instructor.

Ecology and conservation of fishes.

564—**Biological Photography.** Two hours.

One hour of lecture and two hours laboratory per week.

A study of the techniques involved in micro- and macro-biological photography.

567—**Marine Ecology. Four hours.**

Two hours lecture and four hours laboratory or field work per week.

Prerequisite: BIO 482 or G-482.

An analysis of the physicochemical nature of the marine environment and of the interrelationships of marine organisms and their environment.

568—**Planktology.** Four hours.

Two hours lecture and four hours laboratory or field work per week.

Prerequisite: BIO 453 or G-453; or 418 or G-418.

A consideration of the planktonic organisms, their morphological adaptations, and life histories.

569—**Invertebrate Embryology.** Four hours.

Two hours lecture and four hours laboratory or field work per week.

Prerequisites: BIO 101, 102, 103.

A consideration of the ontogeny of the invertebrates and the significance of life history to phylogenetic speculation.

589—**Cytogenetics.** Four hours.

Two hours lecture and four hours laboratory per week.

Prerequisites: Advanced standing in biology, BIO G-401.

Relationships between cytological and genetic systems.

592—**Special Problems in Biology. I, II, III, IV.** Two hours each.

Prerequisite: A thorough background in biology.

Individuals will be assigned some specific problem in biology to investigate under faculty direction. Credit will be determined by the quality and quantity of work done varying from two to a maximum of eight hours.

596—**Biology Seminar. I, II, III.** One hour each.

The presentation and defense of current, classical concepts and principles of biology.

597—**Independent Study and Research.** Hours arranged.

Not to be counted as credit toward a degree.

Students who are not in residence but who are actively working on a thesis and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

598—**Thesis.** Six hours.

600—**Advanced Problems in Marine Microbiology.** Credits (maximum six hours) and schedules by arrangements.

Prerequisites: Marine Microbiology (BIO 565) and consent of instructor.

Supervised research problems and projects selected to meet the needs of the graduate students of microbiology or marine biology.

601—**Research Zoology.** Credits to be arranged for maximum of eight quarter hours.

604—**Research in Marine Biology.** Credits to be arranged.

791—**Research in Biology.** One to twelve hours.

Prerequisite: Approval of the major professor.

792—**Special Problems.** Four hours.

797—**Independent Study and Research.** Hours arranged.

Not to be counted as credit toward a degree.

Students who are not in residence but who are actively working on a dissertation and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

798—**Dissertation.**

COURSES TAUGHT AT THE GULF COAST RESEARCH LABORATORY IN OCEAN SPRINGS BY THE GULF COAST RESEARCH LABORATORY STAFF

G-429—**Marine Botany.** Four and one-half hours.

Prerequisites: General botany, plant taxonomy, and BIO 339.

A survey, based upon local examples, of the principal groups of marine algae, treating their structure, reproduction, distribution and general biology; including a survey of the common maritime flowering plants, their identification and ecology.

G-431—**Marine Vertebrate Zoology.** Nine hours.

Prerequisites: 12 hours in biology, including comparative anatomy.

A formal lecture and laboratory survey of all marine chordates, including the lower subphyla, the fishes, reptiles, mammals, and shore birds.

G-454—**Marine Invertebrate Zoology.** Nine hours.

A study of the structure, natural habitats, classification and economic importance of invertebrate species native to the waters of the Mississippi Sound and around the outlying islands.

541—**Marine Fisheries Biology.** Six hours.

Prerequisites: 18 quarter hours of zoology and one year of college mathematics.

An introduction to the general principles of the subject including the simpler statistical procedures, collection of production statistics, and a general review of the world fisheries with special emphasis on the United States.

565—**Marine Microbiology.** Four hours.

Twelve hours of lecture and laboratory per week.

Prerequisite: Graduate standing in microbiology, or in marine biology with adequate microbiological background.

Examination of the microbial flora of representative environments. Taxonomy, physiology, economic significance, and effort upon biologic communities.

566—**Marine Phycology.** Credits (maximum six hours) and schedules by arrangement.

Prerequisites: Graduate standing, consent of instructor, and some familiarity with the fundamentals of both plant physiology and phycology (culture and taxonomy).

Areas of concentration according to seasonal activities and needs of interest of the student.

DEPARTMENT OF CHEMISTRY (CHE)

Charles E. Lane, Jr., Chairman

Bedenbaugh Brent Campbell Long Newsom Thames Wertz

Master's Degree Programs

The Department of Chemistry participates in programs leading to the Master of Arts and the Master of Science degrees. For all master's degrees a minimum of 46 graduate hours is required.

The Department has the same requirements for the Master of Arts and the Master of Science degrees, so the title of the degree is optional with the student. These degrees require proficiency in a language, a minor of 16 hours, and major courses selected by the student in consultation with the Department Chairman or the major professor. The Department will require a qualifying examination to be taken during the first week upon entering Graduate School. The results of this examination will be used to determine any deficiencies, which will be required to be removed. The student will also be required to attend seminars each quarter of residence. The language requirement will, in most cases, be German. An acceptable problem in research must be completed and terminated by a thesis and an oral examination defending the thesis.

Doctor of Philosophy Program

The Department of Chemistry feels that the degree of Doctor of Philosophy is not to be conferred because of the successful completion of a predetermined number of credit hours but only in recognition of excellence in research and scholastic attainment. However the University requires a minimum of 118 hours beyond the bachelor's or seventy-two (72) beyond the master's degree. The doctoral candidate must have shown originality, initiative, and ability.

The departmental requirements for the Doctor of Philosophy degree are those stated under the general requirements in this **Bulletin** plus the following:

1. The course work required will be determined by the background of the student plus that as determined by the Department Chairman and/or the major professor.

2. One year of residence time will be allowed for the time spent in obtaining the master's degree if it is transferred from another school. Residence time is based on full-time study as determined by the Department. Only under exceptional circumstances will a student be permitted to do any of the last two years of residence at another location.

3. A student may or may not take a master's degree as he proceeds toward the doctorate. The choice of the field of study shall rest with the student as shall the choice of the major professor, who will be appointed by the Department Chairman after consultation of the student with each member of the graduate faculty. The Department of Chemistry at the present is offering majors in the fields of inorganic, organic, and physical chemistry.

4. The dissertation shall be presented to the major professor for correction and criticism before the end of the quarter preceding the quarter of graduation after which the candidate will make three copies to be circulated within the graduate faculty of the Department. The oral examination will be set by the Chairman of the Doctoral Committee in accordance with the schedule of the University. The oral examination will consist of a defense of the research and dissertation.

COURSE DESCRIPTIONS (CHE)

G-401, G-402, G-403—**Physical Chemistry.** Four hours each.

Three lecture periods and one 3-hour laboratory period per week.

Prerequisites: CHE 206, Integral Calculus, and 1 year of physics.

G-405—**Instrumental Analysis.** Five hours.

Two hours lecture and nine hours laboratory or library work per week.

Prerequisites: CHE 303 and CHE 305.

May be taken simultaneously with Chemistry G-401 or G-402.

G-406—**Qualitative Organic Analysis.** Five hours.

Two hours lecture and eight hours laboratory per week.

Prerequisites: CHE 303 and CHE 405.

G-425—**Survey of Biochemistry.** Five hours.

Three hours lectures and four hours laboratory per week.

Prerequisite: CHE 303.

521—**Advanced Analytical Chemistry.** Four hours.

Four hours lecture per week.

Prerequisite: CHE 405.

522—**Advanced Analytical Instrumentation.** Four hours.

Two hours lecture and four hours laboratory per week.

Prerequisite: CHE 521.

531, 532, 533—**Advanced Inorganic Chemistry.** Four hours each.
Four hours lecture per week.

535—**Inorganic Preparations.** Two or four hours.
One hour lecture and six or twelve hours laboratory per week.
Prerequisite: Permission of instructor.

541, 542, 543—**Advanced Organic Chemistry.** Four hours each.
Four hours lecture per week.

545—**Organic Preparations.** Two or four hours.
One hour lecture and six or twelve hours laboratory per week.
Prerequisite: Permission of instructor.

561, 562, 563—**Advanced Physical Chemistry.** Four hours each.
Four hours lecture per week.

594—**Seminar.** One hour each quarter.
One hour per week.

597—**Independent Study and Research.** Hours arranged.
Not to be counted as credit toward a degree.
Students who are not in residence but who are actively working on a thesis and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

598—**Thesis.** Six hours.
Prerequisite: Consultation with and permission of major professor.

621—**Spectroscopy.** Four hours.
Four hours lecture.

631—**Inorganic Structure and Bonding.** Four hours.
Four hours lecture per week.
Prerequisite: CHE 533 or permission of instructor.

632—**Coordination Theory.** Four hours.
Four hours lecture per week.
Prerequisite: CHE 533 or permission of instructor.

641—**Physical Organic Chemistry.** Four hours.
Four hours lecture per week.
Prerequisite: CHE 543.

642—**Mechanisms of Organic Reactions.** Four hours.
Four hours lecture per week.
Prerequisite: CHE 543.

645, 646—**Polymer Chemistry.** Four hours each.
Four hours lecture per week.
Prerequisite: CHE 543.

662—**Statistical Thermodynamics.** Four hours.
Four hours lecture per week.
Prerequisite: CHE 563 or permission of instructor.

665—**Structural Chemistry.** Four hours.
Four hours lecture per week.
Prerequisite: CHE 563.
This course will consist of a theoretical treatment of structural determinations and will encompass the following: symmetry, wave mechanics, rotation, nuclear magnetic resonance, molecular vibrations, anisotropic polarization, crystal structure analysis, electron diffraction.

690—**Chemical Literature.** Four hours.
Four hours lecture per week.
Prerequisite: Permission of the instructor.

731—**Organometallic Compounds.** Four hours.
Four hours lecture per week.
Prerequisites: CHE 533 and CHE 543 or permission of instructor.

732—**Radio Chemistry.** Four hours.
Two hours lecture and four hours laboratory per week.
Prerequisite: CHE 533 or permission of instructor.

741—**Stereochemistry of Organic Compounds.** Four hours.
Four hours lecture per week.
Prerequisite: CHE 543.

743—**Nitrogen Heterocyclic Compounds.** Four hours each.
Four hours lecture per week.
Prerequisites: CHE 543 and CHE 642.

744—**Organophosphorous Compounds.** Four hours.
Four hours lecture per week.
Prerequisite: CHE 543.

761—**Quantum Chemistry.** Four hours.
Four hours lecture per week.
Prerequisite: Permission of instructor.

762—**Chemical Kinetics.** Four hours.
Four hours lecture per week.
Prerequisite: Permission of instructor.

763—**Electrochemistry.** Four hours.
Four hours lecture per week.
Prerequisite: Permission of instructor.

764—**Colloid Chemistry.** Four hours.
Four hours lecture per week.
Prerequisite: Permission of instructor.

791—**Research in Chemistry.** One to twelve hours.
Prerequisite: Approval of the major professor.

794—**Seminar.** One hour each quarter.
One hour per week.

797—**Independent Study and Research.** Hours arranged.

Not to be counted as credit toward a degree.

Students who are not in residence but who are actively working on a dissertation and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

798—**Dissertation.**

DEPARTMENT OF COMMUNICATION

Forrest D. Tucker, Chairman

Bishop Everett George Horton Willis

The Department of Communication offers the Master of Arts or Master of Science degree in the two graduate major areas of public address and communication. The programs consist of forty-six (46) hours, half of which must be numbered 500 or above, excluding thesis credits. A suitable minor of sixteen (16) hours, if elected, can be included in this total.

While a thesis is recommended for either degree, the non-thesis plan can be elected with the approval of the major professor and department chairman. Ordinarily the non-thesis plan is appropriate for the candidate with substantial professional experience.

For the Master of Arts or the Master of Science Degree in Communication

The following courses are recommended:

PUBLIC ADDRESS (PA)

G-430—**Business and Industrial Communication.** Four hours.
G-447—**Theories of Mass Communication.** Four hours.
G-451—**Source Credibility and Public Image.** Four hours.
500—**Reading in the Field.** Two hours. May be repeated once.
530—**Problems in Business and Industrial Communication.** Four hours.
545—**Process and Effects of Communication.** Four hours.
570—**Communication Seminar.** Four hours. May be repeated once.
591—**Research in Communication.** One to twelve hours.
592—**Special Problems.** Four hours.
598—**Thesis in Public Address or Communication.** Six hours.
600—**Experimental Research.** Two hours.
610—**Experimental Methodology.** Two hours.
620—**Experimental Design.** Two hours.
625—**Descriptive Methodology.** Four hours.

JOURNALISM (JOU)

G-421—**Public Relations.** Four hours.
G-422—**Publicity Methods.** Four hours.
G-423—**Public Relations Practices.** Four hours.
G-443—**Supervision of High School Publications.** Four hours.

RADIO-TELEVISION (RTV)

G-424—**Radio and TV Law.** Four hours.
G-426—**Radio Station Management.** Four hours.
G-445—**Audience Analysis.** Four hours.
G-492—**Special Problems in Radio and Television.** Four hours.

COURSE DESCRIPTIONS

PUBLIC ADDRESS (PA)

G-430—**Business and Industrial Communication.** Four hours.

Prerequisite: Consent of instructor or PA 200.

Survey of problems and principles of communication within business and industrial organizations.

G-432—**Symbolic Function in Persuasion.** Four hours.

Prerequisite: Consent of instructor.

Synthesis of communication methodologies from general semantics, field theory, cybernetics, and learning theory; application to interdisciplinary problems.

G-438—**Theories of Speech Behavior.** Four hours.

Prerequisite: Consent of instructor or PA 432.

Interrelationships of psychology and communications, including Communication Theory, Information Theory, and psycholinguistics.

G-441—**Advanced Persuasion.** Four hours.

Prerequisite: Consent of instructor or PA 341.

G-447—**Theories of Mass Communication.** Four hours.

Prerequisite: Consent of instructor or PA 200 and PA 438.

G-451—**Source Credibility and Public Image.** Four hours.

Analysis of communicator and media image as variables in persuasion, propaganda, and advertising; intensive study of source credibility effects.

G-453—**Campaign Speaking.** Four hours.

A study of voter-candidate relationship and issue development. Taught during fall quarter of state or national election years.

G-461—**Advanced Discussion.** Four hours.

Prerequisite: PA 361.

Application of recent research in areas such as group dynamics in business and industrial communication to the group decision-making process; emphasis on group leadership and intra-group communication within industrial and community organizations.

500—**Reading in the Field.** Two hours. May be repeated once.

530—**Problems in Business and Industrial Communication.** Four hours.

540—**Classical Rhetoric.** Four hours.

541—**Medieval Rhetoric.** Four hours.

542—**Modern Rhetoric.** Four hours.

545—**Process and Effects of Communication.** Four hours.

550—**Advanced Theories of Speech Behavior.** Four hours.

555—**World Orators.** Four hours.

570—**Communication Seminar.** Four hours. May be repeated once.

575—**History and Criticism of American Public Address.** Four hours.

584—**Criticism of Contemporary Public Address.** Two hours.

591—**Research in Communication.** One to twelve hours.

592—**Special Problems.** Four hours.

597—**Independent Study and Research.** Hours arranged.

Not to be counted as credit toward a degree.

Students who are not in residence but who are actively working on a thesis and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

598—**Thesis in Public Address or Communication.** Six hours.

600—**Experimental Research.** Two hours.

610—**Experimental Methodology.** Two hours.

620—**Experimental Design.** Two hours.

625—**Descriptive Methodology.** Four hours.

JOURNALISM (JOU)

G-421—**Public Relations.** Four hours.

Total relationship of the institution to its audiences. Origin and development of public relations.

G-422—**Publicity Methods.** Four hours.

An analysis of the media of communication and their relation to publicity. Mechanics of news releases, press conferences, photographs. Publicity function in the public relations department.

G-423—**Public Relations Practices.** Four hours.

Internal and external publications in industry and institutions. Contemporary problems of public relations.

G-443—**Supervision of High School Publications.** Four hours.

Designed to prepare high school teachers to direct the production of high school newspapers and yearbooks.

RADIO-TELEVISION (RTV)

G-424—**Radio and TV Law.** Four hours.
Prerequisite: Consent of instructor.

G-426—**Radio Station Management.** Four hours.
Prerequisites: 12 hours of Radio and TV courses above PA 121.

G-445—**Audience Analysis.** Four hours.
Prerequisite: Consent of instructor.

G-492—**Special Problems in Radio and Television.** Four hours.

DEPARTMENT OF COMPUTER SCIENCE AND STATISTICS (CSS)

Danny R. Carter, Acting Chairman

Mims Nissan Riley

The Department of Computer Science and Statistics participates in the program leading to a minor in statistics at the master's level. For a minor, the student must take sixteen (16) graduate hours which should be selected from the following courses:

CSS G-415—**Methods of Mathematical Statistics I.** Four hours.

CSS G-416—**Methods of Mathematical Statistics II.** Four hours.

CSS G-425—**Experimental Design.** Four hours.

CSS G-427—**Sampling Methods.** Four hours.

CSS 535—**Probability Theory.** Four hours.

CSS 536—**Statistical Inference.** Four hours.

CSS 537—**Least Squares Techniques.** Four hours.

Students may take the following courses in the Department of Psychology and apply them to a minor in statistics:

PSY G-450—**Introduction to Statistics for the Behavorial Sciences.** Four hours.

PSY 562—**Research Methods: Descriptive Statistical Methods.** Four hours.

PSY 563—**Research Methods: Significance Tests and Experimental Designs.** Four hours.

PSY 701—**Factor Analysis.** Four hours.

COURSE DESCRIPTIONS (CSS)

G-403—**Introduction to Analog Computers.** Four hours.
Prerequisite: MAT 378.
Design and testing of basic analog circuits.

G-404—**Advanced Analog and Hybrid Systems.** Four hours.
Prerequisite: CSS G-403.
Use of the analog computer to solve engineering problems.

G-412—**Educational Statistics.** Four hours.

Prerequisite: Permission of instructor.

Elementary probability, conditional probability, Binomial experiments, curve fitting, least squares techniques, correlation and regression models.

G-415—**Methods of Mathematical Statistics I.** Four hours.

Prerequisite: MAT 276 or permission of instructor.

Continuous and discrete distributions, moments of distributions, point and interval estimation, hypothesis testing, power of tests, analysis of variance (one-way classification, orthogonal contrasts), two-way classification analysis of variance, fixed, random and mixed models.

G-416—**Methods of Mathematical Statistics II.** Four hours.

Prerequisite: CSS G-415.

Orthogonal polynomial contrasts, multi-way classification, simple linear regression, multiple linear regression, polynomial regression, Designs (simple randomized blocks, nested factorials), intra-class correlation, quality control.

G-425—**Experimental Design.** Four hours.

Prerequisite: CSS G-416.

Factorials, randomized blocks, Latin Squares and split-plot, fractional factorials and confounding, response surface models.

G-427—**Sampling Methods.** Four hours.

Prerequisite: CSS G-416.

The planning, execution and evaluation of sample surveys. Simple random sampling, stratified random sampling, cluster sampling.

G-474—**Boolean Algebra and Switching Circuits.** Four hours.

Prerequisite: Permission of instructor.

Symbolic logic and Boolean algebra for descriptions and analysis of switching circuits, basic sequential circuits, digital systems design principles.

535—**Probability Theory.** Four hours.

Prerequisite: MAT 379.

Basic Concepts in probability, properties of continuous and discrete distribution, characteristic functions, laws of convergence, transformations.

536—**Statistical Inference.** Four hours.

Prerequisite: CSS 535.

Properties of estimators, Bernoulli and Poisson processes, Cramer-Rao lower bound, power of tests.

537—**Least Squares Techniques.** Four hours.

Prerequisite: CSS 536.

Regression Analysis, Doolittle method, curvilinear regression, experimental design models.

DEPARTMENT OF ENGLISH AND LITERATURE (ENG)

Charles Moorman, Chairman

H. Anderson J. Anderson Bahr Brown Kay
McCraw Orange Pierle Sanderlin C. Smith J. Smith

The Department of English and Literature participates in programs leading to the Master of Arts, Master of Science, Master of Education, and Doctor of Philosophy degrees. For all master's degrees, 46 quarter hours of graduate courses are required, 24 quarter hours of which must be in courses numbered above 500.

For the Master of Arts degree, the student must take at least 30 hours in a major field of concentration (either English Literature, American Literature, or Linguistics, or should he choose a minor outside the Department of English, a combination of these disciplines) and at least 16 hours in a minor field (either English Literature, American Literature, or Linguistics or a related subject-matter field approved by the Department Chairman). The student's program, however, must include English 500 and a choice of G-406 or G-408. A thesis is required and the student must demonstrate proficiency in either French or German.

For the Master of Science degree, which is intended mainly for students preparing for careers in secondary school or junior college work, the student must take at least 30 hours in the major field of concentration and at least 16 hours in the minor field (which may be Education). The student's program must include English 500, English G-433 and G-434 (an undergraduate course in Advanced Grammar and Rhetoric may be substituted for one of these courses) and either English G-406 or G-408. The writing of a thesis is optional and proficiency in a language is not required.

For the Master of Education degree in Secondary Education, the student electing English as a subject-matter area must take a minimum of 24 quarter hours in graduate English courses.

The general requirements for the doctoral degree as set forth in Part IV of this **Bulletin** are applicable to students seeking the doctorate in the Department of English and Literature.

COURSE DESCRIPTIONS (ENG)

G-406—**History of the English Language.** Four hours.

G-408—**The Structure of Modern English.** Four hours.
A review of English syntax and a study of functional pressures upon the conventional forms of English grammar.

G-410—**Colonial and Revolutionary American Literature, 1640-1820.** Four hours.

G-414—**The American Literary Renaissance, 1820-1870.** Four hours.

G-416—**The Rise of Realism in American Literature, 1870-1920.** Four hours.

G-418—**The American Novel, 1920-1960.** Four hours.

G-419—**Modern American Poetry.** Four hours.

G-420—**American Drama.** Four hours.
A literary treatment of American drama before 1920 followed by a thorough analysis of the major figures in American drama from O'Neill to Albee.

G-423—**Shakespeare's Comedies and Tragicomedies.** Four hours.

G-425—**Shakespeare's Histories and Tragedies.** Four hours.

G-427—**The English Novel from Defoe to Dickens.** Four hours.

A study of the novels of Defoe, Richardson, Fielding, Smollett, Sterne, Austen, Scott, and Dickens with particular emphasis on the early development of fictional techniques and forms.

G-428—**The English Novel from Thackeray to Woolf.** Four hours.

A study of the novels of Thackeray, Trollope, Hardy, Conrad, Lawrence, Joyce, and Woolf in order to examine the various schools of nineteenth and twentieth-century fiction and to demonstrate the rising importance of the novel in modern literature.

G-429—**Sixteenth Century English Literature.** Four hours.

G-430, G-431, G-432—**Tutorial in Comparative Literature.** Twelve hours. 4-4-4.

G-433, G-434—**Advanced Grammar and Rhetoric.** Eight hours. 4-4.

(English G-433 places emphasis upon mastery of the fundamentals of grammar to achieve effective instruction at the secondary school level. It is a prerequisite for G-434, which emphasizes recent non-traditional trends in the teaching of grammar and composition.)

G-435, G-436—**Nineteenth-Century Poetry and Prose.** Eight hours. 4-4.

G-443, G-444, G-446—**Readings from World Literature.** Twelve hours. 4-4-4.

G-445—**Literary Criticism.** Four hours.

A survey of the history of literary criticism from the Greeks to the present with special emphasis upon the critical issues raised by Aristotle, Coleridge, and the New Criticism.

G-447—**Major Writers of the Eighteenth Century.** Four hours.

G-451—**Restoration and Eighteenth-Century Drama.** Four hours.

G-453—**Medieval English Literature.** Four hours.

G-473—**Analysis of Poetry.** Four hours.

A study of the techniques of poetry interpretation for the purpose of developing critical insight.

G-474—**The Modern European Novel.** Four hours.

G-479—**Development of English Drama to 1642.** Four hours.

G-480—**Modern European Poetry.** Four hours.

G-483—**Modern Drama.** Four hours.

G-485—**Literature of the South.** Four hours.

G-486—**Seventeenth-Century Prose and Poetry.** Four hours.

G-487—**Milton.** Four hours.

G-488—**Chaucer.** Four hours.

G-489—**Literature and the Arts.** Four hours.

Prerequisite: At least one English course numbered 400 or above in a previous quarter or consent of the instructor.

The applications of general aesthetics, with particular emphasis on the interrelation of literature and the other arts: music, painting, sculpture, architecture, drama.

500—**Bibliography and Methods of Research in English.** Four hours.

Required of all beginning graduate students in English.

502—**Anglo-Saxon.** Four hours.

An introduction to Old English language and literature, with some attention to the development of modern English. A substantial selection of Anglo-Saxon poetry and prose will be read.

503—**The Development of Modern English.** Four hours.

504—**Middle English.** Four hours.

A study of the language and literature of the Middle English period with particular emphasis on the grammar of documents written between 1300-1400.

505—**Seminar in American Literature.** Four hours.

506—**Beowulf.** Four hours.

508—**Seminar in Non-Dramatic Renaissance Literature.** Four hours.

510—**Seminar in Pope and His Contemporaries.** Four hours.

511—**Seminar in English Romanticism.** Four hours.

513—**Seminar in Medieval Epic and Romantic Literature.** Four hours.

515—**Seminar in Modern Poetry.** Four hours.

520—**Seminar in Analysis of Linguistic Structure.** Four hours.

Prerequisites: ENG 434 or ENG 408

Evaluation of various linguistic analytical methods, using raw data taken from an exotic language.

580, 581—**Tutorial in English and Germanic Philology I, II.** Eight hours. 4-4.

592—**Special Problems.** Four hours.

597—**Independent Study and Research.** Hours arranged.

Not to be counted as credit toward a degree.

Students who are not in residence but who are actively working on a thesis and consulting with the major professor or making use of the library or other University facilities must enroll in this course

598—**Thesis.** Six hours.

605—**Seminar in American Literature before 1900.** Four hours.

607—**Seminar in American Literature after 1900.** Four hours.

608—**Seminar in Renaissance Drama.** Four hours.

610—**Seminar in Johnson and His Contemporaries.** Four hours.

611—**Seminar in Victorianism.** Four hours.

613—**Seminar in Medieval Poetry and Drama.** Four hours.

615—**Seminar in Modern Fiction and Drama.** Four hours.

791—**Research in English.** One to twelve hours.
Prerequisite: Approval of the major professor.

792—**Special Problems.** Four hours.

797—**Independent Study and Research.** Hours arranged.
Not to be counted as credit toward a degree.
Students who are not in residence but who are actively working on a dissertation and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

798—**Dissertation.**

DEPARTMENT OF FOREIGN LANGUAGES

Thomas T. Chisholm, Acting Chairman
R. Johnson Neumann Scheel

The Department of Foreign Languages participates in the program leading to the Master of Arts degree in French, German, and Spanish. As a prerequisite, the student must present the equivalent of an undergraduate major in the foreign language in which he plans to major on the graduate level. If the undergraduate major does not include 405, 406, 407, or the equivalent, he must include G-405, G-406, G-407 in his graduate program. The student may elect either of the two following plans of study:

1. Master of Arts degree with a thesis:

A minimum of forty-six (46) hours of graduate courses is required, half of which must be in courses numbered above 500. The student must take thirty (30) graduate hours (including the thesis) in the major language and sixteen (16) graduate hours in an academic minor field approved by his major professor and the Department Chairman. The Department strongly recommends a second foreign language as his minor; however, if the student does not elect another foreign language as his minor, he must demonstrate, by examination, proficiency in a second foreign language.

2. Master of Science degree:

This degree is for the student who does not intend to proceed to a more advanced degree. The plan of study is basically the same as the above plan, except that the student may substitute for the thesis eight additional graduate hours in the major language, and proficiency in a second foreign language is not required.

COURSE DESCRIPTIONS

FRENCH (FRE)

73—**Graduate Reading Course.** Non-credit.
Designed to prepare the graduate student for the reading knowledge examination in French.

G-405—**French Classicism.** Four hours.
Prerequisite: FRE 307.

G-406—**French Romanticism.** Four hours.
Prerequisite: FRE 307.

G-407—**French Realism and Naturalism.** Four hours.
Prerequisite: FRE 307.

G-421—**French Literature of the Twentieth Century.** Four hours.
Prerequisite: FRE 307.

521—**Corneille.** Four hours.

522—**Racine.** Four hours.

523—**Moliere.** Four hours.

531—**The Age of Enlightenment.** Four hours.

541—**The Romantic Poets.** Four hours.

542—**Nineteenth-Century Novel.** Four hours.

592—**Advanced Studies in French.** Four hours.
Prerequisite: FRE 307.
May be repeated for credit when topics vary.

597—**Independent Study and Research.** Hours arranged.
Not to be counted as credit toward a degree.
Students who are not in residence but who are actively working on a thesis and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

598—**Thesis.** Six hours.

GERMAN (GER)

73—**Graduate Reading Course.** Non-credit.
Designed to prepare the graduate student for the reading knowledge examination in German.

G-405—**German Classicism.** Four hours.
Prerequisite: GER 307.

G-406—**German Romanticism.** Four hours.
Prerequisite: GER 307.

G-407—**German Naturalism and Expression.** Four hours.
Prerequisite: GER 307.

G-421—**Contemporary German Literature.** Four hours.
Prerequisite: GER 307.

521—**Goethe and Schiller in their Weimar Periods.** Four hours.

522—**Goethe's FAUST.** Four hours.

523—**German Drama after Goethe.** Four hours.

531—**German Poetry from Holderlin to the Present.** Four hours.

541—**The German NOVELLE in the Nineteenth and Twentieth Centuries.** Four hours.

551—**German Expressionism.** Four hours.

592—**Advanced Studies in German.** Four hours.
Prerequisite: GER 307.
May be repeated for credit when topics vary.

597—**Independent Study and Research.** Hours arranged.
Not to be counted as credit toward a degree.
Students who are not in residence but who are actively working on a thesis and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

598—**Thesis.** Six hours.

SPANISH (SPA)

73—**Graduate Reading Course.** Non-credit.
Designed to prepare the graduate student for the reading knowledge examination in Spanish.

G-405—**The Golden Age.** Four hours.
Prerequisite: SPA 305.

G-406—**Nineteenth-Century Literature of Spain.** Four hours.
Prerequisite: SPA 306.

G-407—**The Generation of 98 and Contemporary Literature of Spain.** Four hours.
Prerequisite: SPA 306.

G-421—**Cervantes and the Renaissance.** Four hours.
Prerequisite: SPA 305.

522—**Spanish Theatre of the Golden Age.** Four hours.

525—**El Quixote.** Four hours.

541—**Spanish Poetry and Drama of the Nineteenth and Twentieth Centuries.** Four hours.

545—**Spanish American Poetry from Dario to the Present.** Four hours.

551—**Modern and Contemporary Prose in Spain.** Four hours.

553—**Modern and Contemporary Prose in Spanish America.** Four hours.

592—**Advanced Studies in Spanish.** Four hours.
Prerequisite: SPA 305.
May be repeated for credit when topics vary.

597—**Independent Study and Research.** Hours arranged.
Not to be counted as credit toward a degree.
Students who are not in residence but who are actively working on a thesis and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

598—**Thesis.** Six hours.

DEPARTMENT OF GEOGRAPHY (GHY) and GEOLOGY (GLY)

Arthell Kelley, Chairman

Bounds Bowen Brown R. Hatcher Koos Paulson

GEOGRAPHY:

The Department of Geography and Geology participates in a program leading to the Master of Arts and Doctor of Philosophy degrees. The student may select a program with or without a minor for a master's degree in geography. To receive a master's degree in geography, the student must complete forty-six (46) hours. If a minor is elected twenty-four (24) hours must be in the field of geography, sixteen (16) hours in the chosen minor and six (6) hours for an acceptable thesis.

A reading knowledge of one foreign language is required for the Master of Arts degree in geography.

The general requirements for the doctoral degree as set forth in Part IV of this **Bulletin** are applicable to students seeking the doctorate in the Department of Geography.

COURSE DESCRIPTIONS

GEOGRAPHY (GHY)

G-410—**Geography of the United States and Canada.** Four hours.

A regional study of Anglo-America covering people, resources, products, trade, and world relation.

G-412—**Aerial Photograph Interpretation.** Four hours.

G-431—**Geography of the South.** Four hours.

G-437—**Geography of the U.S.S.R.** Four hours.

A regional survey of the physical, economic, and cultural geography of the U.S.S.R.

G-439—**Geography of Monsoon Asia.** Four hours.

A regional study, with emphasis on India, China, Japan, and Indonesia.

G-445—**Industrial and Commercial Geography.** Four hours.

Includes a short survey of geographic principles governing secondary and tertiary production.

G-450—**Physiography of North America.** Four hours.

Prerequisites: GLY 101 and 103 or consent of instructor.

A study of the character of the physiographic provinces of North America.

G-460—**Historical Geography.** Four hours.

A study of how geography has influenced American history, exploration, setlement, and political, industrial, and social development.

G-480—**Climatology.** Four hours.

A detailed study of types of world climates. Reference made to distribution of patterns of vegetation, soil and population resulting from climates.

G-484—**Urban Geography.** Four hours.

Nature, distribution, principal functions of urban settlements and supporting areas with emphasis on the United States and local field study.

G-485—**Field Geography.** Four hours.

A study of the techniques of reconnaissance and detailed field work, including classification of natural and cultural features and preparation of reports and maps based on field data. Instruction will cover the use of the compass and hand level, the plane table, and aerial photographs in field mapping.

G-486—**Urban Field Methods.** Four hours.

501—**General Seminar.** One hour.

504—**Primary Production.** Four hours.

506—**Secondary Production.** Four hours.

508—**Tertiary Production.** Four hours.

510—**Advanced Cartography.** Four hours.

512—**Photogrammetry.** Four hours.

514—**Advanced Climatology.** Four hours.

516—**Landforms.** Four hours.

518—**Geography of Soils.** Four hours.

520—**Theory of Regions.** Four hours.

522—**Quantitative Methods of Area Analysis.** Four hours.

540—**History and Development of Geographic Thought.** Four hours.

550—**Seminar in Anglo-America.** Four hours.

552—**Seminar in Latin America.** Four hours.

554—**Seminar in Western Europe.** Four hours.

556—**Seminar in Eastern Europe.** Four hours.

558—**Seminar in U.S.S.R.** Four hours.

560—**Seminar in Asia.** Four hours.

562—**Seminar in Africa.** Four hours.

571—**Seminar in Political Geography.** Four hours.

572—**Seminar in Historical Geography.** Four hours.

591—**Problems in Geography.** Four hours.

592—**Problems in Geography.** Four hours.

597—**Independent Study and Research.** Hours arranged.

Not to be counted as credit toward a degree.

Students who are not in residence but who are actively working on a thesis and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

598—**Thesis.** Six hours.

601—**Readings in Economic Geography.** Four hours.

602—**Problems in Economic Geography.** Four hours.

611—**Readings in Physical Geography.** Four hours.

615—**Problems in Physical Geography.** Four hours.

650—**Anglo-America.** Four hours.

652—**Latin America.** Four hours.

653—**Cultural Geography of Latin America.** Four hours.

654—**Europe.** Four hours.

655—**Readings in Europe.** Four hours.

658—**U.S.S.R.** Four hours.

660—**Asia.** Four hours.

662—**Africa.** Four hours.

680—**Population and Settlement.** Four hours.

681—**Theory and Methodology in Geographic Research.** Four hours.

791—**Research in Geography.** One to twelve hours.

Prerequisite: Approval of the major professor.

797—**Independent Study and Research.** Hours arranged.

Not to be counted as credit toward a degree.

Students who are not in residence but who are actively working on a dissertation and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

798—**Dissertation.**

GEOLOGY (GLY)

The Department of Geography and Geology participates in programs leading to the Master of Arts, Master of Science, and the Master of Education degrees in geology. For all master's degrees a minimum of 46 graduate hours is required, 24 of which must be in courses numbered above 500; thesis credit is not included in the 24 hours. The student must submit a thesis acceptable to the Department. The student is urged to consult early with the Department Chairman regarding the detailed requirements for the thesis. In addition to the general University requirements the student must take an evaluation examination early in his program; this examination will be administered before the student is formally admitted to candidacy, usually during his first quarter (12 hours) of graduate work.

For the Master of Arts degree the student must take a minor of at least 16 graduate hours in a field approved by the Department, and he must demonstrate a reading knowledge of either German, French, or Russian.

For the Master of Science degree the student must elect a minor of sixteen (16) graduate hours in a field approved by the Department; normally the minor is taken in physics, chemistry, mathematics, or biology.

For the Master of Education in secondary education the student electing earth science as a subject-matter area must take a minimum of twenty-four (24) hours of graduate geology courses, and must have met the prerequisites of these courses.

The Department has a cooperative arrangement with the Gulf Coast Research Laboratory. Certain courses in marine sedimentation may be taken at the Laboratory; these are generally taught in the summer.

GEOLOGY (GLY)

G-402—**Stratigraphy of North America I.** Four hours.

Prerequisite: GLY 401.

Stratigraphy of the Precambrian and the Paleozoic Eras.

G-403—**Stratigraphy of North America II.** Four hours.

Prerequisite: GLY 401.

Stratigraphy of the Mesozoic and Cenozoic Eras.

G-420—**Sedimentology.** Four hours.

Two lectures and four hours laboratory per week.

Prerequisite: Permission of instructor.

Study of sedimentary materials, their formation, transportation, deposition, and lithification; field trips.

G-422—**Petroleum Geology.** Four hours.

Two lectures and four hours laboratory per week.

Prerequisites: GLY 330 and permission of instructor.

The origin, occurrence, migration, and accumulation of oil and gas.

G-445—**Economic Geology.** Four hours.

Two lectures and four hours laboratory per week.

Prerequisites: GLY 310, 314, and 330.

Principles of ore deposits; introduction to fuels and non-metallic mineral deposits.

G-452—**Physical Marine Geology.** Up to 9 quarter hours. Gulf Coast Research Laboratory.

Prerequisites: GLY 103, 310, and 420.

A general introduction to the physical processes at work on the shores of Mississippi Sound with emphasis on the erosional and depositional effects of waves and currents at different stages of tide.

G-453—**Chemical Marine Geology.** Up to 9 quarter hours. Gulf Coast Research Laboratory.

Prerequisites: GLY 103, 310, 420, and CHE 203.

Supervised research in the chemistry of the waters and sediments of Mississippi Sound.

G-454—**Problems in Marine Sedimentation.** Up to 9 quarter hours. Gulf Coast Research Laboratory.

Prerequisite: Permission of instructor.

Supervised study of selected aspects of marine sedimentation along the Gulf Coast.

G-461—**Petrography.** Four hours

Two hours lecture and four hours laboratory per week.

Prerequisites: GLY 311 and 314.

Systematic study of rocks by means of the polarizing microscope.

G-468—**Micropaleontology.** Four hours.

One hour lecture and six hours laboratory per week.

Prerequisites: GLY 302 and 303.

Taxonomy, morphology, and stratigraphic use of Foraminifera.

G-469—**Micropaleontology.** Four hours.

Prerequisites: GLY 302 and 303.

Taxonomy, morphology, and stratigraphic use of Ostracoda.

511—**Pleistocene Geology.** Four hours.

Lectures and discussions.

Prerequisites:GLY 101 and permission of instructor.

Geologic history of the earth since the beginning of the Pleistocene Epoch with emphasis on glacial phenomena.

512—**Engineering Geology.** Four hours.

Lectures and discussions; field trips.

Prerequisite: Permission of instructor.

Study of earth processes and materials as they relate to engineering practice.

514—**Geology of Groundwater.** Four hours.

Lectures and discussions; field trips.

Prerequisite: Permission of instructor.

Occurrence and production of groundwater.

515—**Principles of Geology for High School Science Teachers.** Four hours.

Two hours lecture and four hours laboratory per week.

Prerequisite: Bachelor's degree in science or its equivalent.

Principles of physical and historical geology for teachers in the NSF Summer Institute. The course can not be applied toward a major or minor in geology.

530—**Advanced Structural Geology.** Four hours.

Lectures and discussions; field trips.

Prerequisite: GLY 330.

Theoretical analysis of rock deformation on a regional scale.

569—**Gulf Coast Stratigraphy.** Four hours.

Lectures, discussions, and field trips.

Sediments and stratigraphic problems of the Gulf Coastal Region.

591—**Seminar.** Two hours.

Only two hours allowed toward the master's program; varied topics.

597—**Independent Study and Research.** Hours arranged.

Not to be counted as credit toward a degree.

Students who are not in residence but who are actively working on a thesis and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

598—**Thesis.** Six hours.

DEPARTMENT OF HISTORY (HIS)

J. Treadwell Davis, Chairman

Blakey Bowers R. Brent Coker Fike Gonzales
Harper McCarty Posey Scarbrough Skates Turner

The Department of History participates in programs leading to the degrees of Master of Arts, Master of Science, and Doctor of Philosophy.

MASTER'S DEGREES

Requirements for Master of Arts:

1. A total of forty-six (46) quarter hours is required with fifty percent of work in courses on the 500 level.
2. A thesis is required with six hours credit.
3. A sixteen (16) hour major is optional in agreement with the major professor.
4. The student must take (first quarter in residence, if offered) either History 504 or 506, depending upon the field of his thesis.
5. A reading knowledge of one foreign language is required.
6. After the satisfactory completion of the course work and the thesis, the student will take a comprehensive oral examination, which will be given at stated times throughout the year, usually during the seventh week of a quarter. Comprehensive examinations must be arranged when the candidate's major professor is present.

Requirements for Master of Science:

1. A total of forty-eight (48) quarter hours is required, with fifty percent of work in courses on the 500 level.
2. The thesis is optional.
3. An outside minor of sixteen hours is required.
4. The student must take (first quarter in residence, if offered) either History 504 or 506, after consultation with his major professor.
5. After the satisfactory completion of the course work, the student will take comprehensive oral and written examinations, which will be given at stated times throughout the year, usually during the seventh week of a quarter. Comprehensive examinations must be arranged when the candidate's major professor is present.

Fields:

1. For the Master of Arts and Master of Science degrees, history is divided into the following ten fields:

   (1) U. S. History to 1763
   (2) U. S. History, 1763-1848
   (3) U. S. History, 1848-1900
   (4) U. S. in the 20th Century
   (5) Ancient and Medieval
   (6) Renaissance to 1789
   (7) Europe, 1789-1870
   (8) Europe 1870 to Present
   (9) Latin America
   (10) A specialized field which would include such areas as The Far East, The Middle East, Africa, and Modern British History, etc.

2. The Master of Arts candidate must demonstrate proficiency in the field of his thesis, plus one field in U. S. history and one in a non-U. S. field.
3. The Master of Science degree requires proficiency in two fields of U. S. history and two of the non-U.S. history fields.

General Regulations:

The student is held responsible for following all graduate regulations regarding (1) the Graduate Record Examination, (2) filing an application for candidacy for the degree desired, and (3) filing application for the degree. The student's major professor will help in any way possible, but the student is expected to know what is required and to take full responsibility. The procedure is explained fully in Part IV of this **Bulletin.**

DOCTORAL PROGRAM

Each prospective candidate for the doctoral degree must demonstrate proficiency in French and in German during his period of residence for the Ph.D. Upon the recommendation of the major professor and the approval of the graduate committee, some other language may be substituted for either the French or the German. The first language must be completed before the start of the second year of graduate study, and the second language in the quarter before the general comprehensive examinations are taken. All doctoral students must have credit for History 504 and 506.

A minimum of 118 hours of course credit must be attained. The Department offers the Ph.D. in United States History and in European History Since 1815.

If a candidate should major in the field of American History, he must manifest proficiency in one of the following fields within the Department: European History From 1815 to 1919, or European History From 1919 to the Present. He must also demonstrate proficiency in one of the following fields within the Department: Ancient and Medieval; Renaissance to 1815; Latin American; British History Since 1485; or a specialized field such as Russian History with the consent of the major professor and graduate committee. He is required also to develop an outside minor in one of the social sciences or humanities in which minor he will take sixteen (16) quarter hours of work.

If a candidate majors in the field of European History, he must major in the period of Europe Since 1815. He must demonstrate proficiency in either American History to 1865 or American History Since 1865. He is also required to demonstrate proficiency in one of the following fields: Ancient and Medieval; Renaissance to 1815; Latin American; British History Since 1485; or a specialized field such as Russian History with the consent of the major professor and graduate committee. In addition, he must establish an outside minor of sixteen (16) quarter hours in any one of the fields of social sciences or humanities. The outside minor in either case should be decided after consultation with the candidate's major professor and his graduate committee.

The candidate's major professor and committee will review the candidate's progress and may require the candidate to stand a qualifying examination at the end of the first quarter. Upon the conclusion of all course work and the satisfactory completion of the language requirement, the candidate is expected to take a written and an oral general examination in the field of his major, his departmental minors, and his outside minor.

Major Fields:

U.S. History; European History, 1815 to Present.

Minor Fields:

U.S. History to 1865; U.S. History Since 1865;
Ancient and Medieval; Renaissance to 1815;
Europe 1815 to 1919; Europe 1919 to the Present;
Latin American; British History Since 1485;
A specialized field such as Russian History with the consent of the major professor and graduate committee.

Outside Minor:

One of the Social Sciences or Humanities.

Upon satisfactory completion of the general qualifying examination, the candidate shall be admitted by application to candidacy for the degree. If the candidate should fail the general comprehensive examination, he will be permitted to apply for a re-examination two quarters after such failure. A second failure of the general comprehensive examination will render the candidate ineligible for the Ph.D. in history at this institution.

The dissertation is expected to be a mature and competent piece of writing, embodying the results of significant and original research on a subject chosen by the candidate and approved by the major professor and the graduate committee.

Upon completion and approval of the dissertation, the candidate is expected to stand satisfactorily a final examination on the dissertation and the field in which the dissertation lies.

The student's major professor, who is usually selected in accordance with the preference of the student, will guide the candidate through the early part of his graduate work. Upon admission to candidacy for degree, an advisory committee will be appointed which will direct the work of the student through the completion of requirements for the degree. The committee will be composed of the major professor, who will be chairman, representatives from the student's major and minor fields, and as many other members of the graduate faculty as deemed necessary. The committee will in no circumstances exceed seven members and a two-thirds vote on all matters shall decide the candidate's fitness for the degree.

A minimum of three research seminars is required; two in the field of the major and one in the departmental minor.

COURSE DESCRIPTIONS (HIS)

Certain graduate courses taken in other departments may be accepted for credit with the consent of the student's graduate committee.

G-401—**Russia to 1800.** Four hours.

G-402—**Nineteenth Century Russia.** Four hours.

G-403—**Russia Since 1917.** Four hours.

G-404—**Russian Intellectual History.** Four hours.

G-405—**The Cold War Issues.** Four hours.

G-411—**English Constitutional History.** Four hours.

G-413—**Western Intellectual History.** Four hours.

G-421—**Ancient Greece.** Four hours.

G-423—**The Roman Republic and Empire.** Four hours.

G-424—**Medieval World I, Economic and Social History.** Four hours.

G-425—**Medieval World II, Culture and Letters.** Four hours.

G-427—**The Age of Absolutism in Europe, 1648-1789.** Four hours.

G-430—**Modern Germany.** Four hours.

G-432—**French Revolution and Napoleon.** Four hours.

G-433—**Europe, 1815-1870.** Four hours.

G-434—**Europe, 1870-1918.** Four hours.

G-435—**Europe, 1918-1939.** Four hours.

G-436—**Europe Since 1939.** Four hours.

G-437—**Modern France.** Four hours.

G-439—**Tudor-Stuart Britain.** Four hours.

G-441—**Nineteenth Century Britain.** Four hours.

G-442—**Twentieth Century Britain.** Four hours.

G-445—**The British Commonwealth.** Four hours.

G-451—**U.S. Intellectual and Social History to 1865.** Four hours.

G-453—**U.S. Intellectual and Social History since 1865.** Four hours.

G-455—**The Old South.** Four hours.

G-457—**The New South.** Four hours.

G-459—**History of Mexico.** Four hours.

G-465—**The Caribbean and the Spanish Borderlands.** Four hours.

G-467—**Argentina, Brazil, and Chile.** Four hours.

G-469—**United States Constitutional History to 1861.** Four hours.

G-470—**United States Constitutional History since 1861.** Four hours.

G-475—**United States Foreign Relations to 1898.** Four hours.

G-477—**United States Foreign Relations since 1898.** Four hours.

G-481—**Colonial America, 1607-1754.** Four hours.

G-482—**Revolutionary Era, 1754-1789.** Four hours.

G-484—**American Political Leaders.** Four hours.

G-495—**Age of Hamilton, Jefferson, and Jackson, 1789-1840.** Four hours.

G-496—**The Sectional Controversy and the Civil War, 1840-1865.** Four hours.

G-497—**Reconstruction and the Emergence of Modern America, 1865-1898.** Four hours.

G-498—**The Progressive Era, World War I, Prosperity and Depression. 1898-1933.** Four hours.

G-499—**The New Deal, World War II, and Post-War America, 1933-Present.** Four hours.

504—**European Historiography.** Four hours.

506—**American Historiography.** Four hours.

508—**Seminar in Ancient History.** Four hours.

510—**Seminar in Medieval History.** Four hours.

514, 515, 516—**Seminar in European History, 1870 to Present, I, II, III.** Four hours each.

518—**Seminar in Modern European Diplomatic History.** Four hours.

520—**Seminar in Modern Russia.** Four hours.

530—**Seminar in British History, I.** Four hours.

531—**Seminar in British History, II.** Four hours.

540, 541—**Reading Seminar in European History, I, II.** Four hours each.

552, 553—**Seminar in Southern History, I, II.** Four hours each.

560—**Seminar in Nineteenth Century U.S. Diplomatic History.** Four hours.

561—**Seminar in Twentieth Century U.S. Diplomatic History.** Four hours.

568—**Seminar in Mississippi History.** Four hours.
Each student will complete a major research project under the supervision of his instructor. Insofar as possible the student will use materials in the collections of the University of Southern Mississippi Library. As a part of each project each student will be encouraged to collect as much of his own research material as possible. After examination by the library, this material may be added to the archives of the University Library.

572—**Seminar in American Colonial and Revolutionary Period.** Four hours.

574—**Seminar in Nineteenth Century U.S.** Four hours.

576—**Seminar in Twentieth Century U.S.** Four hours.

578, 579—**Reading Seminar in American History, I, II.** Four hours each.

584, 585—**Seminar in Latin American History, I, II.** Four hours each.

592—**Special Problems, I, II, III.** One hour each.

597—**Independent Study and Research.** Hours arranged.

Not to be counted as credit toward a degree.

Students who are not in residence but who are actively working on a thesis and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

598—**Thesis.** Six hours.

791—**Research in History.** One to twelve hours.

Prerequisite: Approval of the major professor.

797—**Independent Study and Research.** Hours arranged.

Not to be counted as credit toward a degree.

Students who are not in residence but who are actively working on a dissertation and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

798—**Dissertation.**

DEPARTMENT OF MATHEMATICS (MAT)

B. O. Van Hook, Acting Chairman

Felder King Webster

The Department of Mathematics participates in programs leading to the Master of Arts degree and the Master of Science degree with a major in mathematics. The Department of Mathematics is authorized to offer the Doctor of Philosophy degree.

For all master's degrees, a minimum of forty-six (46) quarter hours of graduate work is required, twenty-four (24) quarter hours of which must be in courses numbered above 500.

For the Master of Arts degree, the student must demonstrate proficiency in a foreign language (by examination or by presentation of sufficient undergraduate credit), and write a thesis.

For the Master of Science degree, proficiency in a foreign language is not required. The writing of a thesis is optional with the student's advisory committee.

A mathematics seminar is conducted each quarter for graduate students in mathematics. Its purpose is to contribute to the student's mathematical development. Each graduate student in residence is required to attend the mathematics seminar each quarter. A maximum of six (6) quarter hours credit may be earned for participation in the seminar.

The three-quarter sequence in advanced calculus should be completed before beginning the programs leading to the Master of Arts or the Master of Science degree. If not, then it must be included as a part of the program approved by the student's adviser.

A student must satisfy the present undergraduate requirements for a major in mathematics at the University of Southern Mississippi before beginning a program leading to a master's degree in mathematics. If a student cannot meet these requirements, he may be admitted to the Graduate School as a conditional graduate student and allowed to take work to fulfill these requirements. The hours required for a graduate degree will be in addition to this prerequisite. It should be emphasized that admission to the Graduate School does not imply acceptance of the student as a candidate for a graduate degree.

Graduate students in mathematics are required to pass an oral preliminary examination before being admitted to candidacy for a master's degree. The preliminary examination will cover fundamentals and will serve to identify the student's level of mathematical maturity. No student will be granted more than three attempts to pass the preliminary examination with at least a three-month interval between attempts. This examination will be administered not later than the fourth week of any quarter on a date arranged by the student with the student's adviser and the Chairman of the Mathematics Department. A minimum of twenty (20) quarter hours of graduate courses must be registered for and completed after the examination is passed.

Candidates for either the Master of Arts or the Master of Science degree will take an oral comprehensive examination not later than the sixth week of the last quarter of residence on a date arranged by the student with the student's adviser and the Chairman of the Mathematics Department.

No student will be permitted to select a thesis topic until he has been admitted to candidacy for a master's degree. The thesis in mathematics must conform to University regulations. Four copies of the candidate's thesis are required to be distributed as follows: two copies to the Dean of the Graduate School, one copy to the Chairman of the Mathematics Department, and one copy to the student's major professor.

The offerings of the Mathematics Department are divided into the following four areas:

(1) **Mathematical Analysis**—G415, G425, G431, G435, G441, G442, G443, 505, 506, 507, 531, 533, 534, 535, 536, 537, 538, 539, 631.

(2) **Algebra**—G407, G423, G424, G426, G472, 503, 572.

(3) **Applied Mathematics**—G406, G411, G415, G416, G418, G420, G425, G426, G431, G435, G441, G442, G443, G484, G485, 505, 506, 507, 531, 551, 552, 553, 631.

(4) **Geometry and Topology**—G401, G461, G462, G471, G472, G473, 501, 571, 572, 601, 671.

All other University requirements for the master's degree as outlined in the **Graduate Bulletin** must be completed.

The Department of Mathematics offers the following areas of study, which may be taken on the Doctor of Education program with emphasis in mathematics, or to fulfill requirements of one year's work in mathematics beyond the master's degree:

MAT G-441, G-442, G-443. **Advanced Calculus I, II, III.** Twelve hours.

MAT G-415, 505, 506, 507. **Theory of Differential Equations.** Sixteen hours.

MAT G-423, G-424, 503. **Modern Algebra I, II, III.** Twelve hours.

MAT G-471, G-473, 583. **Topology I, II, III.** Twelve hours.

MAT G-431, 531, 631. **Theory of Functions of a Complex Variable I, II, III.** Twelve hours.

MAT 532, 533, 534. **Theory of Functions of a Real Variable I, II, III.** Twelve hours.

MAT 551, 552, 553. **Applied Mathematics I, II, III.** Twelve hours.

MAT 537, 538, 539. **Functional Analysis I, II, III.** Twelve hours.

MAT 535, 536. **Measure and Integration I, II.** Eight hours.

COURSE DESCRIPTIONS (MAT)

G-318—**Basic Concepts of Mathematics for Elementary School Teachers.** Four hours.

Prerequisite: MAT 100 or its equivalent.

Graduate credit is applicable only towards a master's degree in education.

G-321—**Foundations of Mathematics for Junior High School Teachers.** Four hours.

This is a course designed for persons currently teaching junior high school mathematics, or who are preparing to teach secondary school mathematics. It covers the development of the number system, set theory, nonmetric geometry, coordinate systems, measurement, geometry, and statistics. Open only to in-service teachers. Graduate credit is applicable only towards a master's degree in education.

G-401—**Geometry.** Four hours.

Prerequisites: MAT 341 and 378.

Geometry of the triangle and the circle beyond ordinary Euclidean geometry, presented from a set theoretic viewpoint.

G-406—**Numerical Analysis I.** Four hours

Prerequisite: MAT 326.

Numerical solutions of algebraic and transcendental equations, systems of equations, finite differences, interpolation.

G-407—**Number Theory.** Four hours.

Prerequisite: MAT 341 or concurrent with 341.

An introduction to the theory of numbers, integers, aliquot parts, Diophantine equations, linear congruences, the Chinese remainder theorem, continued fractions.

G-411—**Vector Analysis.** Four hours.

Prerequisite: MAT 378.

Vector algebra and vector calculus, with applications to physics, mechanics, and geometry.

G-415—**Differential Equations II.** Four hours.

Prerequisite: MAT 405.

G-416—**Numerical Analysis II.** Four hours.

Prerequisites: MAT 405 and 406. MAT 405 may be taken concurrently with 416.

G-418—**Linear Programming.** Four hours.

Prerequisite: MAT 326.

G-420—**Statistics and Probability.** Four hours.

Prerequisites: MAT 341 and 378.

A modern course treating probability and statistics based upon set theory.

G-423—**Modern Algebra I.** Four hours.

Prerequisites: MAT 341 and 378.

G-424—**Modern Algebra II.** Four hours.

Prerequisite: MAT 423.

Theory of groups, rings, integral domains, fields.

G-425—**Fourier Series.** Four hours.

Prerequisites: MAT 405.

The Euler coefficients, properties of Fourier series, odd and even function expansion, change of interval, alternative forms of Fourier series, harmonic analysis, applications, orthogonal functions.

G-426—**Linear Algebra II.** Four hours.

Prerequisite: MAT 326.

G-431—**Theory of Functions of a Complex Variable I.** Four hours.

Complex numbers, analytic functions, infinite series, Cauchy's integral theorem, analytic continuation, Riemann surfaces, conformal mapping.

G-435—**Laplace Transform.** Four hours.

Prerequisite: MAT 405.

Properties of the Laplace transform, special transforms, solution of differential equations by transforms, convergence of Laplace transforms, the convolution integral, applications in partial differential equations.

G-441—**Advanced Calculus I.** Four hours.

Prerequisites: MAT 378 and 341.

G-442—**Advanced Calculus II.** Four hours.

Prerequisite: MAT 441.

G-443—**Advanced Calculus III.** Four hours.

Prerequisite: MAT 442.

G-461—**Projective Geometry I.** Four hours.

Prerequisites: MAT 401 and 326.

Projective space, projective invariants, Desargues' theorem, Pappus' theorem, transformations-projectivities and perspectivities, polarities, affine geometry.

G-462—**Projective Geometry II.** Four hours.

Prerequisite: MAT 461.

A continuation of MAT 461. Collineations, correlations, conics, pencils of conics, the geometry of inversion, non-Euclidean geometries, spatial geometry.

G-471—**General Topology.** Four hours.

Prerequisites: MAT 341.

Topological spaces, separation properties, compact sets, connected sets, product spaces.

G-472—**Algebraic Topology.** Four hours.

Prerequisites: MAT 424 and 471.

G-473—**Metric Spaces.** Four hours.

Prerequisite: MAT 471.

G-484—**Mechanics I. Statics.** Four hours.

Prerequisites: MAT 405 and PHY 103 or 203.

A study of vectors, concurrent forces, coplanar forces, resultants, equilibrium forces in space, moments of inertia, center of gravity, hydrostatics, work, kinetic energy, and dynamics of a rigid body.

G-485—**Mechanics II. Dynamics.** Four hours.

Prerequisite: MAT 484.

501—**Differential Geometry I.** Four hours.

Prerequisite: MAT 443.

Curves in space, local coordinates, curves on surfaces, curvature, transformations of surfaces.

503—**Abstract Algebra I.** Four hours.

Prerequisite: MAT 424.

A course which goes beyond the foundations and elementary properties of algebraic systems, treating such topics as semigroups, groups with operators, extensions of rings and fields, factorization theory, modules, and lattices.

505—**Theory of Differential Equations I.** Four hours.

Prerequisites: MAT 443 and 405.

The method of successive approximations, the Lipschitz condition, systems of equations, the fundamental existence theorem, solutions containing parameters, linear systems of differential equations.

506—**Theory of Differential Equations II.** Four hours.

Prerequisite: MAT 505.

A continuation of MAT 505. Singularities of an autonomous system, ordinary differential equations in more than two variables, first order partial differential equations.

507—**Theory of Differential Equations III.** Four hours.

Prerequisite: MAT 506.

A continuation of MAT 506. The Cauchy problem, second-order partial differential equations, the potential equation.

531—**Theory of Functions of a Complex Variable II.** Four hours.

Prerequisite: MAT 431.

532—**Theory of Functions of a Real Variable I.** Four hours.

Prerequisite: MAT 443.

533—**Theory of Functions of a Real Variable II.** Four hours.

Prerequisite: MAT 532.

534—**Theory of Functions of a Real Variable III.** Four hours.

Prerequisite: MAT 533.

535—**Measure and Integration I.** Four hours.

Prerequisite: MAT 533.

536—**Measure and Integration II.** Four hours.

Prerequisite: MAT 535.

537—**Functional Analysis I.** Four hours.

Prerequisites: MAT 426, 431, 533.

A study of normed linear spaces, metric spaces, compact spaces, Hilbert and Banach spaces, conjugate spaces, classification and representation of linear operators and linear functionals; completely continuous operators; extension theorems; spectral theory, applications to classical analysis.

538—**Functional Analysis II.** Four hours.

Prerequisite: MAT 537.

539—**Functional Analysis III.** Four hours.

Prerequisite: MAT 538.

551-552-553—**Applied Mathematics I-II-III.** Four hours each.
Prerequisite: MAT 443.

571—**General Topology II.** Four hours.
Prerequisite: MAT 471.

Metrization theorems, paracompactness and related topics.

581—**Topics in Algebra.** Four hours.
Prerequisites: MAT 424 and permission of the instructor.

582—**Topics in Analysis.** Four hours.
Prerequisites: MAT 443 and permission of instructor.

583—**Topics in Topology and Geometry.** Four hours.
Prerequisites: MAT 401 or 471 and permission of the instructor.

591—**Research in Mathematics.** One to twelve hours.

594—**Mathematics Seminar I, II, III.** One hour each.
Prerequisite: Permission of instructor.

597—**Independent Study and Research.** Hours arranged.
Not to be counted as credit toward a degree.
Students who are not in residence but who are actively working on a thesis and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

598—**Thesis.** Six hours.

631—**Theory of Functions of a Complex Variable III.** Four hours.

Prerequisite: MAT 531.

A continuation of MAT 531.

694—**Mathematics Seminar I, II, III.** One hour each.
Prerequisite: Permission of instructor.

DEPARTMENT OF PHYSICS AND ASTRONOMY (PHY)

H. C. Dudley, Chairman
Franks Kiess

The Department of Physics offers a program leading to the Master of Science degree. For this degree a minimum of thirty (30) graduate hours of physics is required. Students obtaining this degree will minor in mathematics and/or computer science. A thesis and a reading knowledge of Russian, German, or French are required.

Students who plan to do graduate work should acquire about sixty (60) hours of undergraduate physics credit. The Department of Physics may require a student to complete certain undergraduate courses in physics when his preparation is deemed inadequate.

COURSE DESCRIPTIONS (PHY)

G-443—**Sound and Ultrasound.** Four hours.

Three hours lecture and one 3-hour laboratory period per week.

Prerequisites: PHY 103 or PHY 203, PHY 481 or PHY 332.

A study of sound and ultrasound, fundamentals of wave motion in a finite medium. Fundamentals of hearing, acoustics, and high intensity waves.

G-444—**Fundamentals of Solid State Physics.** Four hours.

Three hours lecture and one 3-hour laboratory period per week.

Prerequisite: PHY 328 or 381.

Study of the solid as an electromagnetic wave medium, excitation levels, and the one electron theory.

G-450, G-451—**Mechanics.** Four hours each.

Prerequisites: PHY 103 or 203 and calculus.

The mathematical analysis of the dynamics of particles, rigid bodies, wave motion and vibration. For physics and mathematics majors only.

G-474—**Quantum Mechanics I.** Four hours.

Four lectures per week.

Prerequisites: PHY 103 or 203, calculus.

Thermal Radiation and the origin of Quantum Theory. The Solution of the Schroedinger Wave Equation—applied to square well potential box; particle in a central field.

G-475—**Quantum Mechanics II.** Four hours.

Four lectures per week.

A continuation of PHY G-474.

The superposition of states. Steady State Perturbation—non-degenerate and degenerate cases. Time Dependent Perturbation. Dirac wave equation.

G-481—**Nuclear Physics.** Four hours.

Prerequisite: PHY 381.

Nuclear binding forces, chain reaction, criticality, the non-steady state reactor, radiation shielding and detection.

G-485, G-486— **History and Literature of Physics.** Four hours each.

A survey of the history of physics from ancient times to 1900, stressing the rise and fall of concepts.

A survey of the influence of the concept of quanta and relativity and the modern laboratory findings which impinge upon these theories. Survey of the coding, storage, and retrieval of scientific information.

504—**Critique of Theory.** Four hours.

A critical review of the assumptions and mathematical procedures which make up what is termed "Theoretical Physics".

510 and 511—**Advanced Atomic and Molecular Spectra I and II.** Four hours each.

The detailed study of the spectra generated by high purity crystals under the influence of strong electric and/or magnetic fields at temperatures of liquid nitrogen and liquid helium.

561, 562, 563—**Modern Physics.** Four hours each.

Three lecture periods and one 3-hour laboratory period per week.

Prerequisites: Consent of instructor and PHY 381.

Electromagnetic waves, electron emission, X-radiation, relativity, quantum theory, spectroscopy, wave mechanics, atomic and nuclear structure, and cosmic rays.

570—**Fundamentals and Modern Problems for General Physics For High School Teachers.** Four hours.

A presentation of the fundamentals of physics. Stress will be placed on problem solving, the precise definition of terms, and the employment of correct terminology. Recent developments in physics will receive attention.

Specifically designed to bring up to date the high school physics teacher's comprehension of the fundamentals of physics. May not be counted a major or minor in physics.

571, 572, 573—**Theoretical Physics.** Four hours each.

Prerequisites: PHY 481, 450, 451 or 474, 475.

Selected topics of general physics from an advanced point of view. Generally mathematical development of basic physical concepts. For physics majors only.

591—**Research in Physics.** One to twelve hours.

594—**Seminar I, II, III, IV.** One hour each.

Prerequisite: Consent of the Chairman of the Department.

This course will be devoted to the study of current literature in physics and may be supplemented by laboratory research. The student will prepare and deliver one or more papers before the Department.

597—**Independent Study and Research.** Hours arranged.

Not to be counted as credit toward a degree.

Students who are not in residence but who are actively working on a thesis and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

598—**Thesis.** Six hours. Credit deferred until thesis is completed.

DEPARTMENT OF POLITICAL SCIENCE (PS)

William H. Hatcher, Chairman

Barnwell Caudill Doumas Mobley
Tuchak Virden Weems Wilber

Master's Degree Program in Political Science

Master of Arts. Requirements for the Master of Arts degree include: forty-six (46) quarter hours of course work, which includes a thesis, and a sixteen-hour (16) hour minor (optional). A reading knowledge of one foreign language is also required.

Master of Science. Requirements for the Master of Science degree include: forty-six (46) quarter hours of course work, including an outside minor of sixteen (16) hours. A thesis is optional. The Master of Science degree should be considered a terminal degree.

Course Requirements in the Major. Although it is the intention of the Department to permit programs to be flexible, the following pattern should normally be followed:

(1) As a graduate or undergraduate, the student must have taken one course (in addition to PS 101) from each of the following four fields:

(a) Political theory.
(b) American political institutions and processes.
(c) Comparative political institutions and processes.
(d) International relations, international organization, and international law.

(2) The student must take at least one course at graduate level in political theory.

(3) The student must specialize in one of the four fields listed above under (1), taking at least sixteen (16) graduate hours in the field.

(4) The student must also take at least eight (8) hours at graduate level in one of the other of the four fields listed above under (1).

(5) At least four courses numbered 500 or above must be taken in political science, and at least one-half of the graduate work must be in the 500 level or above.

(6) A written and oral comprehensive examination will be given on completion of the work. Normally this is given during the final quarter, but sometimes the time is shifted at the discretion of the student's committee.

(7) Before undertaking a graduate major in the Department, a student is expected to have at least twelve (12) hours of undergraduate political science. However, the Chairman of the Department or the student's advisory commitee may require additional undergraduate work if needed by the student for his particular program.

Courses Accepted from Other Departments. The following courses will be accepted as political science for purposes of completing a major or minor if approved by the student's adviser:

FIN G-415; ECO G-400; HIS G-405, G-411, G-469, G-470, G-475, and G-477.

The Doctoral Program in Political Science

In additional to the general requirements listed above in this **Bulletin**, the Department of Political Science makes the following refinements:

Proficiency in **two** foreign languages is expected. The student must be able to use the first language before beginning doctoral work (the second year of graduate study), and must satisfy the requirement for the second language at least one full quarter prior to the quarter in which the comprehensive examination is taken.

The qualifying examination (if required) is to be taken during the first quarter of graduate work beyond the master's degree.

By the end of his training, the student must be competent in the four fields of political science, namely: (1) political theory, (2) American political institutions and processes, (3) comparative political institutions and processes, and (4) international relations, international organization, and international law. At least one research seminar must be taken in each of the four fields.

In addition to work in the four fields of political science, the student must take 16 hours of course work in a minor field approved by his committee.

The comprehensive examination at the end of the program will cover all fields of political science and may cover the minor field at the discretion of the committee and of the minor department. Should the student fail the comprehensive examination in one or more fields, a re-examination may be given by the Department following a lapse of two quarters, or when the student has taken sufficient remedial work to warrant re-examination. Should the student fail the second examination, he will not normally be allowed to continue graduate work in the Department.

COURSE DESCRIPTIONS (PS)

G-400—**Political Theory to 1783.** Four hours.

Political thought from Plato through the Enlightenment, with emphasis on the contributions of individual philosophers.

G-402—**American Political Theory.** Four hours.

A study of the principal political ideas that have influenced the development of the United States' political system.

G-404—**Political Theory Since 1783.** Four hours.

Recent and contemporary European political thought with emphasis on liberalism, conservatism, socialism, communism, and fascism.

G-406—**American Political Parties and Pressure Groups.** Four hours.

A survey of party structures, problems, and the methods of political leaders. Also a survey of present pressure groups and their methods.

G-407—**Mississippi Government.** Four hours.

G-412—**U. S. Constitutional Law.** Four hours.

A survey, by the case method, of principles and practices of American constitutional law. Emphasis is placed upon judicial review, the federal system, national powers, and individual rights.

G-434—**County Government.** Four hours.

A study of local rural government, with some emphasis on Mississippi.

G-435—**Municipal Government.** Four hours.

A study of the principal systems of municipal government in the United States, with emphasis on Mississippi.

G-436—**The Legislative Process.** Four hours.

A detailed study of Congress and the state legislature, covering functions, organization, procedure, outside influences, and problems. Emphasis is on Congress.

G-450—**Governments of West Europe.** Four hours.

A study of West Germany, France, and Italy.

G-451—**Soviet Government and Politics.** Four hours.

A detailed study of the political, economic, and social structure of the Soviet Union, and of the role of the Communist Party.

G-452—**British Government.** Four hours.

G-453—**Soviet Foreign Policy.** Four hours.

A study of Soviet foreign policy with emphasis on the period after World War II.

G-457—**International Politics.** Four hours.

G-458—**International Organization.** Four hours.

A study of the principal types of international organization, and of examples of the same, such as the United Nations and the Organization of American States.

G-459—**Propaganda in Foreign Policy.** Four hours.

A study of the media and techniques of propaganda, and of propaganda as an instrument of foreign policy. U.S. programs, both governmental and non-governmental, are examined and compared with those of other appropriate countries.

G-460—**Public Administration.** Four hours.

An introductory study, including administrative organization, personnel management, and fiscal management.

G-461—**The Presidency.** Four hours.

A study of the executive function in the process of government with special emphasis on the increasing role of the President.

G-462—**Public Personnel Administration.** Four hours.

Includes recruitment, promotion, discipline, control and the removal in both the United States and the states.

G-463—**Organization and Management.** Four hours.

Includes organization planning, program planning, fiscal planning, and administrative reporting.

G-464—**Policy Formulation.** Four hours.

Includes the roles of persons, groups, and governmental and non-governmental institutions.

G-470—**Government and Politics of the Middle East.** Four hours.

A study of the states of the contemporary Middle East: governmental structures and institutions, political organizations and behavior, and regional and international relations.

G-472—**Far East Governments and Politics.** Four hours.

A survey of the politics and the governmental systems of the area in general, and of such states as India, China, Taiwan, Japan, Ceylon, and the Philippines in particular.

G-474—**Governments and Politics of Tropical Africa.** Four hours.

A survey study of the political systems of the "emerging" states of the dark continent and the politics thereof, with special emphasis on industrialization and on socio-cultural background.

G-480—**Latin American Governments and Politics.** Four hours.

A study of governmental and political process in the Latin American member nations of the Organization of American States.

G-481—**Public Administration in Latin America.** Four hours.

A study of public administration in Latin America: strengths, weaknesses, underlying factors, and effect on pursuit of goals.

G-482—**Inter-American Relation.** Four hours.

A study of hemisphere relations, with emphasis on the United States and Latin America, bilaterally and multilaterally.

G-483—**Latin American Political Integration and Development.** Four hours.

A study of the movement and the progress toward Latin American integration and development through agreements, organizations, and assistance programs.

G-485—**International Law.** Four hours.

A sampling of the field, based largely on cases.

500—**Scope and Methods.** Four hours.

A survey of the scope of political science and of the tools and methods utilized in the discipline.

511—**Seminar in Political Theory.** Four hours.

Prerequisite: Another course in political theory or consent of the instructor.

A research-type course in which each student will make an intensive study of one or more areas of political theory, or of one or more great writers on political theory.

512—**Problems in Political Theory.** Four hours.

Prerequisite: PS 511 or consent of the instructor.

A seminar devoted to a select number of central problems, which will vary from year to year.

520—**Seminar in U. S. Constitutional Law.** Four hours.

Prerequisite: Another course in constitutional law, a course in U. S. constitutional history, or consent of the instructor.

A research-type course in which each student will make an intensive study of one or more fields of U. S. Constitutional Law.

532—**Seminar in U. S. Government.** Four hours. May be taken twice for credit.

Prerequisite: Course in American national, state, and local government or consent of instructor.

An advanced course in the United States Government, including state and local levels.

540—**Seminar in Comparative Government.** Four hours. May be taken twice for credit.

Prerequisites: One or more courses in comparative government or consent of the instructor.

A research-type course in which each student will make an intensive study of the political institutions of one country, or of a group of countries having similar governments.

545—**Communist Ideology.** Four hours.

A critical study of materials from the basic writings of Communist thinkers: Marx, Lenin, Stalin, and Mao, with attention to modification made from period to period.

550—**U. S. Foreign Relations Today.** Four hours.

Prerequisite: Another course in U. S. foreign policy or history of U. S. foreign policy or consent of the instructor.

A survey of current United States foreign policies and problems.

555—**Seminar in International Relations.** Four hours. May be taken twice for credit.

Prerequisites: PS 457, 458, and 485, or the consent of the instructor. (Several history courses make good background for this course.)

A research-type course in which each student will make an intensive inquiry into some phase of international relations, such as the purposes states have in their foreign policies, the methods and instrumentalities they use, and the basic power factors which diplomats and scholars watch in estimating the capabilities of other states. Emphasis is placed on organizational dynamics.

560—**Regulatory Commissions.** Four hours.

A study of the independent regulatory commissions in the context of separation of powers. The analysis will include the policies of the commissions, and the constitutionality of delegation of legislative power.

561—**The Administrative Process.** Four hours.

A study of the Bureaucracy as a part of American Government with special emphasis on the role of the expert in modern administration. Restricted to old line Departments. Covers chain of command and the problem of control of administrative discretion.

591—**Research in Political Science.** One to twelve hours.

592—**Special Problems I, II, III.** One hour each.

The student works individually on a paper in political science under the supervision of a graduate faculty member.

597—**Independent Study and Research.** Hours arranged.

Not to be counted as credit toward a degree.

Students who are not in residence but who are actively working on a thesis and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

598—**Thesis.** Six hours.

791—**Research in Political Science.** One to twelve hours.

Prerequisite: Approval of the major professor.

792—**Special Problems.** Four hours.

797—**Independent Study and Research.** Hours arranged.

Not to be counted as credit toward a degree.

Students who are not in residence but who are actively working on a dissertation and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

798—**Dissertation.**

DEPARTMENT OF RELIGION (REL) AND PHILOSOPHY (PHI)

John F. Nau, Chairman

Bennett Jones Sullivan Wood

The Department of Religion and Philosophy participates in programs leading to a Master of Arts degree in philosophy and a graduate minor in philosophy and/or a graduate minor in religion and philosophy.

The requirements for the Master of Arts degree in philosophy are as follows:

1. A minimum of forty-six (46) quarter hours of graduate work, twenty-four (24) quarter hours of which must be in courses numbered 500 or above, and six (6) quarter hours in a thesis.

2. Students whose undergraduate preparaton is adjudged inadequate may be required to make up their deficiences by taking undergraduate courses without credit. Specifically, students whose undergraduate program does not include the History of Philosophy and elementary Logic will be required to enroll in those courses without receiving credit.

3. All students must pass a proficiency test in one foreign language, preferably modern; also Greek or Latin will be accepted.
4. A thesis is required and an oral defense of it.
5. Oral and written examinations, comprehensive and otherwise, may be required as determined by the chairman of the department and the student's advisory committee.

The requirements for the minor programs are as follows:

1. To complete a graduate minor in philosophy, a total of sixteen (16) quarter hours of graduate work is required.
2. To complete a graduate minor in religion and philosophy, a total of sixteen (16) quarter hours of graduate work is required with eight (8) quarter hours in each subject.

COURSE DESCRIPTIONS

PHILOSOPHY (PHI)

G-412—**Philosophy of Politics.** Four hours.

A study of fundamental political concepts including law, government, sovereignty and state, and the relation of man's understanding of his own nature to the structuring of such concepts.

G-420—**Introduction to the Philosophy of Science.** Four hours.

Prerequisites: 8 hours of philosophy or advanced courses in mathematics or the empirical sciences.

A study of the conditions and status of knowledge, perception, measurement, hypothesis, causality, and concept formation based upon recent scientific and philosophical investigation.

G-430—**Advanced Ethics.** Four hours.

Prerequisite: PHI 370.

A study of rival contemporary theories in general theory of value and ethics. The positions of naturalism, intuitionism, emotivism, and functionalism will be critically compared.

G-448—**The Pre-Socratics.** Four hours.

A study of the major schools and problems of the pre-socratic philosophers from Thales to the atomists. Consideration will be given to the intrinsic importance of the contributions of these philosophers to perennial problems in metaphysics and epistemology as well as to the influence of these contributions on the philosophies of Plato and Aristotle.

G-460—**Analytic Philosophy.** Four hours.

A study of the historical background and development of the contemporary linguistic approach to philosophical problems based upon the writings of Wittgenstein, Wisdom, Ryle, and Austin.

G-462—**Phenomenology.** Four hours.

Texual study of the philosophy of Edmund Husserl, the founder of phenomenology. Topics such as philosophy as rigorous science, intentionality, and the phenomenological reduction will be given special attention.

510—**Philosophical Implication of Religion.** Four hours.

A study of the knowledge of God, the relation of science and religion, the problem of religious language, and the possibility of a theology of history and a theology of culture.

520—**Seminar in Metaphysics.** Four hours.

Classical and contemporary metaphysics will be examined. Modern criticism by logicians, analytic philosophers, and philosophers of science will be presented.

530—**Seminar in Epistemology.** Four hours.

The problem of knowledge as presented in modern philosophic thought. Topics include the mind-body problem, the neural identity problem, behaviorism, etc.

540—**American Philosophy.** Four hours.

A consideration of representative modern American thinkers, including Royce, Peirce, James, Mead, and Dewey.

550—**Plato.** Four hours.

A textual study of the major Platonic dialogues.

560—**Aristotle.** Four hours.

A textual study of Aristotle's philosophical writings.

570—**Kant.** Four hours.

A textual study of Kant's metaphysical, epistemological, and ethical writings.

580—**Whitehead.** Four hours.

A study of Whitehead's theory of reality, philosophy, man, and civilization

590—**Special Problems.** Two to four hours.

597—**Independent Study and Research.** Hours arranged.

Not to be counted as credit toward a degree.

Students who are not in residence but who are actively working on a thesis and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

598—**Thesis.** Six hours.

RELIGION (REL)

G-401—**History of Christian Culture.** Four hours.

May be elected as history.

A study of the cultural development of Western Europe during the Christian era, with emphasis on religious thought, and on religious aspects of institutions, literature, and art.

G-402—**Religion in the Rise of American Culture.** Four hours.

A study of the origin and development of the major religious groups and of the shifts in religious thought in the United States from colonial times to the present.

G-405—**The Types of Literature in the Bible.** Four hours.

An analysis of the types of literature in the Old and New Testaments and a comparison of these with similar writings of other Jewish writers of the same periods and with related types of writing among other people.

DEPARTMENT OF SCIENCE EDUCATION (SCE)

Ashley G. Morgan, Chairman

Brown Flowers Frazier Sonnier Swann

The Department of Science Education recognizing the increased emphasis on the art of science teaching and the additional opportunities for individuals with advanced training in these arts provides a program for the Master's and the Doctor of Education degrees in science education.

In addition to the general requirements and procedures pertaining to graduate degrees as outlined in Part III and IV of this **Bulletin,** the following requirements must be fulfilled.

Master's Degree:

1. Completion of fifty-eight (58) or sixty (60) quarter hours of graduate work.
2. A miniumum of twenty-four (24) quarter hours in a specific science —biology, chemistry, geology, or physics.
3. A minimum of eight (8) quarter hours in related sciences.
4. Demonstration of competence in the following Professional Education areas:
   (a) Psychology of learning
   (b) History and philosophy of education
   (c) Statistical methods and procedures in education
   (d) Research methods in education
   (e) Guidance and educational testing
   (f) Public school science curriculum
   (g) Problems in science teaching

Generally, the fulfillment of the above requirements will involve:

A. Twelve (12) to twenty (20) quarter hours in professional education.
B. Thirty-eight (38) to forty-eight (48) quarter hours in the sciences and science education.

Approximately one-third of the graduate work will be in professional education and two-thirds in the sciences. Students with sufficient background are not required to take additional courses in professional education, but will complete their programs in the sciences.

A thesis carrying six quarter hours is optional and would substitute for two courses in education. The total program with thesis requires fifty-eight (58) quarter hours graduate credit. The thesis may involve research in a particular science or research education.

Doctor of Education Degree:

1. Completion of seventy-two (72) quarter hours of graduate work above that accepted at the master's level.
2. A minimum of twenty-four (24) quarter hours in a specific science— biology, chemistry, earth science, or physics.
3. A minimum of eight (8) quarter hours in related science.
4. Competence in the areas of professional education as listed above.

Generally, the fulfillment of the above requirements will involve:

A. Twelve (12) to twenty-four (24) hours in professional education.
B. Thirty-two (32) or more hours in the sciences.
C. Twelve (12) or more hours in science education.

In all, two-thirds or more of the graduate work will be in the sciences and science education. In planning the overall program consideration is given to the student's background and his particular interests and goals.

Additional requirements include demonstrated proficiency in educational statistics and independent research. Research, culminating in a dissertation, may deal with a problem in the student's science specialty or a problem in science education.

In addition to an evaluation of the student's record, tests and examinations are used for diagnostic purposes in planning programs. The Graduate Record Examination verbal and quantitative scores and the National Teacher Examination commons and teaching area scores should be submitted with the application for advanced graduate study. During the first or second quarter of study additional tests are administered by the Department and the School of Education and Psychology.

COURSE DESCRIPTIONS (SCE)

SCE G-400—BSCS—**Biology for Secondary Teachers.** Four hours.
Prerequisite: Biology background or permission of the instructor.
A detailed critical examination of the subject matter, techniques, and methods for teaching biology in secondary schools, as proposed by the Biological Sciences Curriculum Study. Designed to orient teachers in modern biology subject matter and special techniques by presenting background material and special laboratory exercises. Emphasis is placed on the laboratory as the source of information from which sound conclusions can be drawn.

SCE G-401-CHEM—**Chemistry for Secondary Teachers—Methods and Techniques.** Four hours.
Two hours lecture and four hours laboratory work per week.
Prerequisite: Chemistry background or permission of the instructor.
A course designed to familiarize chemistry teachers with the materials, methods, and techniques of teaching chemistry developed by the Chemical Education Material Study Committee. Unifying principles of chemistry are emphasized, with laboratory work providing the basis of development. Not allowable as credit toward degree requirements for chemistry majors.

SCE G-402—**PSSC Physics for Secondary Teachers—Methods and Techniques.** Four hours.
Two hours lecture and four hours laboratory work per week.
Prerequisite: Physics background or permission of the instructor.
A course designed to familiarize physics teachers with methods, materials, and techniques of teaching physics developed by the Physical Science Study Committee. Not allowable as credit toward degree requirements for physics majors.

SCE G-403—**ESCP Earth Science Methods and Materials for Teachers.** Four hours.
Six hours lecture-laboratory work per week.
Prerequisite: Earth Science background or permission of the instructor.
A course designed to familiarize teachers with the materials, methods, and techniques developed by the Earth Sciences Curriculum Project. Emphasis is placed on laboratory and field work for data collection, and principles of other sciences as they relate to the study of the earth.

500—**Science Curriculum in the Public Schools.** Four hours.
Prerequisite: Permission of the instructor.
Involves a critical examination of the research, its implications, and trends in science course content. Course will include the use of seminars, research problems, independent study, advanced courses, etc., in the secondary schools.

501—**Problems in Science Teaching.** Four hours.
Prerequisite: Permission of the instructor.
A study of problems related to curriculum, methodology, activities, professionalism—scientific and educational, and evaluation in science teaching. Involves the examination of recent research in these areas.

502—**Techniques of Demonstrating and Experimenting with Scientific Principles.** Four hours.

Prerequisite: Permission of the instructor.

A course designed especially for general science teachers, considering fundamental aspects of biology, chemistry, geology, and physics. Provides for examination of modern material, equipment, and apparatus, and the use of the material in demonstrating and experimenting with scientific ideas.

SCE 510—**Physics for Elementary School Teachers.** Four hours.

Prerequisites: 8 hours in physical science and 8 hours in biological science.

The physics course is designed principally for the purpose of providing teachers with a deeper knowledge of matter and energy and understanding of their relationships. The course is organized around principles and general ideas (and their development) that can be directly applied to the elementary grade. Particular attention is given to quantitative processes pertaining to the understanding of the properties of matter and energy.

SCE 511—**Chemistry for Elementary School Teachers.** Four hours.

Prerequisites: 8 hours in physical science and 8 hours in biological science.

In keeping with the current trends in chemistry teaching, major emphasis in this chemistry course will be placed upon: (1) relating ideas and facts; (2) understanding widely applicable principles; (3) placing heavy reliance upon laboratory work; (4) striving toward closer continuity between subject matter and pedagogy; and (5) deriving the necessary operational and conceptional definitions necessary to think about chemical systems. There will be a shift of emphasis from descriptive chemistry toward chemical principles to represent the changes in chemistry that have taken place over the last two decades.

SCE 512—**Biology for Elementary School Teachers.** Four hours.

Prerequisites: 8 hours in physical science and 8 hours in biological science.

A course in general modern biology emphasizing the molecular aspects of animate matter.

SCE 513—**Earth Sciences for Elementary School Teachers.** Four hours.

Prerequisites: 8 hours in Physical science and 8 hours in biological science.

This course is designed to provide elementary teachers with a general background understanding of natural phenomena of the earth and its relationships in space. Particular emphasis is placed on those processes that are directly applicable to grades 1 through 6.

SCE 598—**Thesis.** Six hours.

SCE 791—**Research in Science Education.** One to twelve hours.

SCE 796—**Seminar.** Two hours each quarter for no more than three quarters. Meets for two hours weekly.

Discussion of current trends and practices in science education; invited speakers; and discussions of prospecti and research of current students in science education.

SCE 797—**Independent Study and Research.** Hours arranged. Not to be counted as credit toward degree.

Students who are not in residence but who are actively working on a dissertation and counsulting with the major professor or making use of the library or other University facilities must enroll in this course.

SCE 798—**Dissertation.**

DEPARTMENT OF SOCIOLOGY (SOC)

John N. Burrus, Chairman

Allen Blackmon Bourgeois McMurry

The Department of Sociology offers a graduate major and graduate minor on the master's degree level. The Department's graduate program provides for the Master of Arts degree in sociology and a sociology minor in the Master of Arts and Master of Science degree programs of other departments.

General regulations governing admission to the Graduate School, requirements of the College of Arts and Sciences, and requirements for admission to candidacy for degree are to be found elsewhere in this **Bulletin.** The graduate student should familiarize himself with these requirements and assume responsibility for their discharge.

The major professor and departmental chairman will work out a program of study with, and for, each student electing to do graduate work in sociology.

If the student is uncertain as to whether he has satisfied undergraduate course prerequisites for any particular course, he should consult the instructor for clarification.

The Master of Arts Program in Sociology

In the major area, the Department of Sociology offers only the Master of Arts degree. General requirements correspond to the requirements of the University and its Graduate School. Policies of admission to the University, admission to the Graduate School, admission to candidacy for degree, and grading standards conform to those laid down by the University.

Requirements for the Master of Arts Degree

30 quarter hours in sociology (minimum).

16 quarter hours in a minor subject approved by the Sociology Department.

At least half of the hours must be in courses numbered 500 or above.

Reading knowledge of one foreign language (proficiency as determined by Graduate School policy) .

A thesis to be approved by the major professor.

A written comprehensive examination.

An oral examination by the student's committee to be based on the thesis, the major, and the minor.

COURSE DESCRIPTIONS (SOC)

G-401—**Population.** Four hours.

A course in population analysis. An introduction to the Science of Demography. Instruction is given in how to compute and interpret vital data. Special attention is given to Mississippi population data.

G-420—**Industrial Sociology.** Four hours.

An advanced sociological study of industrial and business units as social systems in their institutional setting.

G-429—**Juvenile Delinquency.** Four hours.

A study of causes and the nature of juvenile delinquency, the development of the juvenile court, of probation and other rehabilitative programs.

G-430—**Social Foundations of Personality.** Four hours.

A comprehensive treatment of the role of the social group and the cultural heritage in the development and functioning of human personality.

G-450—**Social Institutions.** Four hours.

A detailed study of major American social institutions; their functions, interrelationships, and significant trends.

G-470—**Advanced General Sociology.** Four hours.

An advanced course in general sociology giving expanded treatment to the basic sociological concepts and subject matter areas. A basic course in a graduate program.

G-481—**History of Social Thought.** Four hours.

An introduction to social theory. A survey of man and ideas that have influenced the development of Western civilization.

G-482—**Sociological Theory.** Four hours.

A survey of the growth and development of sociological theory from Comte to the present.

G-485—**Methods of Social Research.** Four hours.

A survey of the basic techniques and methods essential to locating, processing, and presenting research materials.

Courses Exclusively for Graduate Students

501—**Departmental Seminar.** One hour.

May be repeated once for a total of two quarter hours. Required of all graduate majors.

507—**American Community Life.** Four hours.

A study of American community life and its social and cultural patterns.

530—**Social Control and Social Change.** Four hours.

A study of the forms of social control. Independent research projects are reported to the class for discussion and evaluation.

550—**Social Institutions.** Four hours.

An advanced course in social institutions. A study of the structure and function of the five basic institutions. Each student will select one institution for intensive study.

570—**Seminar in Sociological Theory.** Four hours.

A detailed study of the content and influence of selected major contributors to sociological theory.

580—**Seminar in Demography.** Four hours.

Each student does a demographic study of his home county (or other selected area) under the supervision of the instructor. Seminar meetings deal with theory, methods, and interpretation of data.

592—**Special Study Projects in Sociology, I, II, III, IV.** Two hours each.

Special projects in reading, survey, or research in sociology. Work will be under direction of the major professor or a member of the graduate faculty. Work will be designed to earn credit in two hour units. Maximum credit is eight hours.

597—**Independent Study and Research.** Hours arranged.

Not to be counted as credit toward a degree.

Students who are not in residence but who are actively working on a thesis and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

598—**Thesis.** Six hours.

Credit will not be recorded in 598 until thesis is accepted by the major professor.

DEPARTMENT OF SPEECH AND HEARING SCIENCES (SHS)

Robert B. Mahaffey, Acting Chairman
Davis DuBard Giles Harris Peters

The Department of Speech and Hearing Sciences participates in programs leading to the Master of Arts, Master of Science, Master of Education, and Doctor of Philosophy degrees. Part IV of this **Bulletin** covers the specific requirements for these degrees. At the master's level, specialization is possible in four principal areas: (1) Speech and Hearing Science, (2) Audiology, (3) Speech Pathology, and (4) Language Disorders. The program of study at the doctoral level will usually be planned with specialization in one of three principal areas: (1) Speech and Hearing Science, (2) Audiology, and (3) Speech Pathology.

COURSE DESCRIPTIONS (SHS)

SPEECH AND HEARING SCIENCES

G-402—**Language Development.** Four hours.

The normal acquisition of language.

G-406—**Acoustic Phonetics.** Four hours.

Principles of acoustic theories of speech production.

G-410—**Anatomy, Physiology, and Mechanism of Hearing.** Four hours.

This is a basic and fundamental audiology course open to all students who are interested in the normal anatomy and physiology of the ear and associated areas.

G-412—**Aural Rehabilitation.** Four hours.

Current methods involved in the rehabilitation of the hard of hearing, with emphasis on lipreading, auditory training, hearing aids, and counseling services.

G-440—**Medical Diagnosis and Treatment of Speech and Hearing Pathologies I.** Two hours.

G-441—**Medical Diagnosis and Treatment of Speech and Hearing Pathologies II** Two hours.

G-442—**Medical Diagnosis and Treatment of Speech and Hearing Pathologies III.** Two hours.

A three-course sequence dealing with the diagnosis and the medical and surgical treatment of speech and hearing pathologies.

G-443—**Voice Science I.** Four hours.

G-444—**Voice Science II.** Four hours.

A two-course sequence dealing with the various anatomical and neurological systems concerned with the production of speech.

500—**Designs in Research for Speech and Hearing.** Four hours.

Quantitative methods and logic models for scientific study of speech and hearing.

502—**Speech and Hearing Science.** Four hours.

The study of the body of knowledge pertaining to speech and hearing sciences.

592—**Practicum in Speech and Hearing Science, Audiology, Language Disorders,** or **Speech Pathology.** Credit arranged.

597—**Independent Study and Research.** Hours arranged.

Not to be counted as credit toward a degree.

Students who are not in residence but who are actively working on a thesis and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

598— **Thesis.** Six hours.

600—**Seminar in Speech and Hearing Science.** One to four hours.

A. Acoustic Phonetics
B. Experimental Phonetics
C. Language Development
D. Physiological Mechanisms in Speech and Hearing
E. Psychoacoustics
F. Psychology of Speech
G. Quantitative Methods in Speech and Hearing
H. Semantics
I. Speech Encoding and Decoding
J. Speech Intelligibility

603—**Seminar in Laboratory Research.** One to four hours.

A. Laboratory in Speech and Hearing Sciences
B. Laboratory in Audiology
C. Laboratory in Speech Pathology
D. Laboratory in Language Disorders

692—**Individual Study.** Credit arranged.

791—**Research in Speech and Hearing Sciences.** One to twelve hours.

Prerequisite: Approval of the major professor.

792—**Special Problems.** Four hours.

797—**Independent Study and Research.** Hours arranged.

Not to be counted as credit toward a degree.

Students who are not in residence but who are actively working on a dissertation and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

798—**Dissertation.**

AUDIOLOGY (AUD)

G-405—**Clinical Audiology.** Four hours.

Advanced audiometric techniques and clinical procedures.

G-413—**Pre-School Hard of Hearing and Deaf.** Four hours.

An over-all view of the complex problems facing the hard-of-hearing and deaf child in the home, community, and educational environment.

G-417—**Audiological Instrumentation.** Four hours.

To present to advanced students various electronic systems employed in the study of audiology.

G-425—**Pathologies of the Hearing Mechanism.** Four hours.

A basic and fundamental course in audiology open to students interested in the various pathologies and abnormal functions of the ear and associated areas.

501—**Audiology.** Four hours.

The study of the body of knowledge pertaining to hearing.

602—**Seminar in Audiology.** One to four hours.

A. Aural Rehabilitation
B. Differential Audiology
C. Electrophysiologic Audiometry
D. Industrial, Military, and Community Hearing Conservation
E. Measurement of Auditory Reception
F. Non-Organic Hearing Losses
G. Peripheral and Central Hearing Process

LANGUAGE DISORDERS

G-430—**Phonetics for the Acoustically Handicapped.** Four hours.

Techniques for teaching speech to the deaf and those children with unusual hearing problems, including system of orthography and their application for teaching speech and reading to acoustically handicapped children.

G-431—**Language Disorders I: Assessment of Children with Language Disorders.** Four hours.

Problems of assessing children with language disorders, differentiating the aphasic child from the deaf, mentally retarded, autistic, severely emotionally disturbed, or the child who does not develop speech and language because of muscular paralysis.

G-432—**Language Disorders II: Habilitation of the Aphasic Child.** Four hours.

Prerequisites: SHS 430, 431.

Basic problems of the aphasic child and procedures needed for him to acquire use and comprehension of language and speech.

G-433—**Language for the Hard-of-Hearing and Deaf.** Four hours.

Prerequisites: SHS 413 or the consent of the instructor.

Principles of language development for the pre-school and school age hard-of-hearing and deaf child and the child with multiple handicaps.

G-434—**Speech for the Hard-of-Hearing and Deaf.** Four hours.

Prerequisite: SHS 430.

Problems in developing and maintaining intelligible speech in hard-of-hearing and deaf children through the multisensory approach. Attention is given to the speech problems of children with multiple handicaps.

G-435—**Problems in Reading for the Hard-of-Hearing and Deaf.** Four hours.

Prerequisite: Consent of the instructor.

Problems confronting the deaf in reading. Special attention is given to problems created by the vocabulary of high level abstraction and words of multiple meanings.

G-436—**Problems in Academic Subjects for the Hard-of-Hearing and Deaf.** Four hours.

Problems of vocabulary and language of specific matter areas.

G-437—**History, Education, and Guidance for the Deaf.** Four hours.

503—**Language Disorders.** Four hours.

The study of the body of knowledge pertaining to language disorders.

604—**Seminar in Language Disorders.** One to four hours.

A. Psychology of the Deaf and Speech Handicapped
B. Problems and Procedures in Evaluating Children.

SPEECH PATHOLOGY

G-301—**Introduction to Speech Pathology.** Four hours.

G-404—**Stuttering and Related Problems.** Four hours.

Theories and therapeutic procedures evaluated with respect to the problem of stuttering behavior in children and adults.

G-414—**Diagnostic Procedures in Speech Pathology.** Four hours.

Examination and diagnosis of people with speech disorders with emphasis on interviewing, testing, and report writing.

G-416—**Articulation Disorders.** Four hours.

Study of the problems of defective articulation: definition, causative factors, therapy, and research.

G-420—**Voice Disorders.** Four hours.

The disorders of voice and their cause and management.

G-424—**Organic Speech Problems.** Four hours.

The pathologies and therapies for speech and allied language problems associated with the organic disorders of cerebral palsy and cleft palate.

G-428—**Adult Aphasia and Related Problems.** Four hours.

The speech and related problems associated with neurological impairment.

G-438—**Pathology of Speech Mechanism.** Four hours.

Investigation of the various disorders involving the vocal mechanism which can result in and/or be associated with speech problems.

504—**Speech Pathology.** Four hours.

The study of the body of knowledge pertaining to speech pathology.

601—**Seminar in Speech Pathology.** One to four hours.

A. Aphasia and Related Disorders
B. Articulation Disorders
C. Cerebral Palsy
D. Cleft Palate
E. Clinical Counseling in Speech Pathology
F. Neuropathologies of Speech
G. Stuttering and Related Problems
H. Voice Disorders

SCHOOL OF BUSINESS ADMINISTRATION

Joseph A. Greene, Jr., Dean

Rector R. Hardin, Coordinator of Graduate Studies

DEPARTMENTS AND GRADUATE DEGREE PROGRAMS

The University of Southern Mississippi's School of Business Administration is organized into five departments: Accounting; Economics; Finance; Management; and Marketing. The School currently offers four graduate degree programs: a Master of Business Administration; a Master of Science or Master of Arts in Economics; and a Master of Science degree in Business Administration. The curricular requirements for each of these four degree programs are detailed below, followed by graduate-level course descriptions for each of the five departments.

A prospective student should examine each degree program carefully as to its objective, course content, and prerequisites before deciding which to pursue.

Graduate fellowships are available in each of the degree-program areas or fields of emphasis. Students with excellent undergraduate records are encouraged to apply for these at the time they apply for admission to the Graduate School.

GRADUATE DEGREE REQUIREMENTS

All of the general academic regulations and requirements outlined in Part IV of this **Bulletin** apply to students pursuing graduate work in the School of Business Administration. Specific requirements regarding prerequisites and courses are detailed under the outlined programs which follow. An applicant for admission who may be deficient in quality-point average or in his prerequisites may be admitted conditionally upon recommendation of his major professor, the Dean of the School of Business Administration, and the Dean of the Graduate School. If he is in doubt he may make regular application and will be notified if his admission is regular or conditional, or if it is denied.

DEGREE PROGRAMS IN BUSINESS ADMINISTRATION

MASTER OF BUSINESS ADMINISTRATION

The program leading to the Master of Business Administration degree may be used by the student in various ways. First, he may consider it as preparatory graduate work for the doctoral degree. Second, he may use it to prepare to teach in junior colleges where a teaching certificate is not necessary. Third, it may be considered as a terminal degree if he wishes to prepare for a position of responsibility in business but is not interested in advanced graduate work at the doctoral level. Many students with undergraduate work in other fields such as mathematics or engineering use the program for this last purpose as well as those who majored in business or economics as undergraduates.

The requirements for the Master of Business Administration degree may be completed in an academic year by the student who has graduated from an approved curriculum in a department or school of business and is exceptionally strong academically. Ordinarily the student spends a full calendar year completing the requirements.

The student who did his undergraduate work in some other field will have to spend additional time making up his deficiencies. Courses which are considered as definite prerequisites to the program are principles of accounting, principles of economics and at least one course in each of the following fields: management, marketing, business law, business finance, and statistics. The major professor may ascertain other deficiences upon examination of a transcript.

A student who is deficient in these requirements or others may be allowed to remove the deficiency while doing graduate work if the deficiency is not too great.

A field emphasis may be taken in accounting, economics, finance, management, or marketing. A student who uses one of the curriculum courses in his field emphasis must substitute an acceptable course over 500 in another field in the curriculum.

The degree will be conferred upon candidates who (1) meet the general requirements of the Graduate School, and (2) complete the special curriculum requirements as outlined below, and (3) pass an oral and/or written examination. A thesis is optional.

CURRICULUM REQUIREMENTS

	Hours
MANAGEMENT 570—Business Policy	4
FINANCE 580—Seminar in Finance	4
ECONOMICS 515—Managerial Economics or ECONOMICS 500—Microeconomic Theory	4
MARKETING 535—Marketing Problems	4
ACCOUNTING 525—Managerial Accounting	4
MANAGEMENT 560 or FINANCE 585—History and Philosophy of Management or Business History	4
FIELD EMPHASIS	16
THESIS or ELECTIVES	6
Total	46

MASTER OF SCIENCE

The Master of Science Degree in Business Administration is conferred on a student who meets the same requirements for graduation as the Master of Business Administration except that he chooses a minor in a department in the School of Business Administration or in a department in another school or in the College of Arts and Sciences.

DEGREE PROGRAMS IN ECONOMICS

The Department of Economics offers a program leading to a Master of Arts with a major in economics and a program leading to a Master of Science with a major in economics. The purpose of both programs is to prepare students for positions as economists in education, business, and government.

Under either program, the student must meet the general requirements of the Graduate School. There is no language requirement for a Master of Science degree and the thesis is optional with the student. A student pursuing the Master of Arts degree must demonstrate a proficiency in an

approved foreign language by either passing a written examination or presenting sufficient undergraduate credits and must also successfully complete an approved research project as evidenced by an accepted thesis. The specific requirements for the two degrees are listed below.

The recommended graduate minor in economics constitutes a systematic study of the economic environment in which we live. Several advanced undergraduate courses which have been designed to provide appropriate instruction in economics to students in other major fields may be taken for graduate credit.

In order to promote scholarship, fellowship, and the advancement of economics, all graduate students are encouraged to participate in the activities of the Economics Society, a student organization sponsored by the Department. Graduate students who qualify may be offered membership in Omicron Delta Epsilon (Artus), the national honorary economics society.

The recommended graduate minor in economics consists of Economics 500, 505, 510, and 530 or 550.

CURRICULUM REQUIREMENTS

	Hours
ECONOMICS 500—**Microeconomic Theory**	4
ECONOMICS 505—**Macroeconomic Theory**	4
ECONOMICS 510—**Monetary Theory and Fiscal Policy**	4
ECONOMICS 530—**History of Economic Thought**	4
ECONOMICS 550—**Problems in Political Economy**	4
ELECTIVE (with approval of adviser)	4
THESIS or ELECTIVES (Thesis is optional for the Master of Science candidates only)	6
MINOR (at least one course above 500)	16
Total	46

COURSE DESCRIPTIONS

DEPARTMENT OF ACCOUNTING (ACC)

G-405—**Current Accounting Theory and Research.** Four hours.

Prerequisites: ACC 310, 320, 330, and 401, or consent of instructor.

The study of current accounting problems, with special emphasis on the published bulletins (pronouncements) of professional accounting organizations. Students will explore specific contemporary controversial topics and write research papers.

G-410—**Auditing II.** Four hours.

Prerequisite: ACC 409.

A study of AICPA audit bulletins, application of statistical sampling techniques to auditing, review of internal control procedures, and case studies in auditing procedures.

G-420—**Advanced Cost Accounting and Budgeting.** Four hours.

Prerequisite: ACC 320.

A study of the managerial uses of accounting data including budgetary procedures and control. Emphasis will be on analyzing cost behavior, dis-

tribution costing, cost analysis, break-even analysis, cost-profit-volume relationships, decision making, budget preparation, cash and capital budgeting. Students will also be required to write a research paper on a selected topic.

G-429—**Federal Income Tax Accounting I.** Four hours.

Prerequisite: ACC 301 or consent of instructor.

An introductory course with emphasis on the computation and reporting of ordinary income, capital gains and losses, exclusions, and deductions applicable principally to individuals.

G-429—**Federal Income Tax Accounting I.** Four hours.

Prerequisite: ACC 429.

A continuation of ACC 429 with emphasis on research in taxation, accounting methods, special sales, payment of taxes, guides for partnerships, estates, trusts, and corporations, and preparation of filing of required returns.

G-450—**Accounting Systems.** Four hours.

Prerequisite: ACC 409.

A study of the nature and procedure of systems work with attention given to the design and use of business papers and forms, mechanical equipment and auxiliary devices, punched-cards accounting methods, journals, ledgers, internal checks, and applied accounting systems and procedures.

G-460—**Consolidated Statements and Accounting for Fiduciaries.** Four hours.

Prerequisite: ACC 401.

Fiduciary accounting principles and reports, parent and subsidiary accounting including consolidations and mergers and foreign exchange.

G-470—**Municipal and Governmental Accounting.** Four hours.

Prerequisite: ACC 203.

A study of the principles and standards of governmental accounting, with emphasis on classification of accounts, fund accounting, statements, and reports.

G-492—**Research in Accounting Problems.** One to four hours.

Prerequisite: Approval of instructor.

A seminar course for advanced study in problems in cost accounting, budgeting, auditing, income tax, or governmental accounting.

525—**Managerial Accounting.** Four hours.

Prerequisite: Principles of Accounting.

A study of the potential managerial uses of accounting statements and reports with emphasis on their use for planning and control. The course is conducted largely on the case study method.

DEPARTMENT OF ECONOMICS (ECO)

G-400—**Public Finance.** Four hours.

Prerequisite: ECO 330.

A study of federal and state spending and fund raising policies within the context of the social goals to be accomplished by such policies.

G-405—**Quantitative Analysis in Economics I.** Four hours.

Prerequisite: ECO 335 or 340 or consent of instructor.

Usually offered in alternate years.

A survey of mathematical concepts particularly suited for their application in economic theory of consumer behavior and theory of the firm.

G-406—**Quantitative Analysis in Economics II.** Four hours.
Prerequisite: ECO 405.
Usually offered in alternate years.
Design, estimation, and testing of mathematical models in economic theory, with emphasis on microeconomics.

G-420—**Economics of Public Utilities.** Four hours. Usually offered in alternate years.
Prerequisite: ECO 330.
A study of the development, institutional bases, structure, and regulation of public utilities

G-430—**Economics of Urban Areas.** Four hours. Usually offered in alternate years.
Prerequisite: ECO 330.
A study of the economic problems of urban areas, with special reference to the problem of urban land utilization and the spending and fund-raising problems of municipal governments.

G-435—**International Trade Theory.** Four hours.
Prerequisite: ECO 330.
A study of the historical development of international trade theory, the importance of international trade, the mechanism of internal payments and modern theories dealing with the subject.

G-436—**International Economic Relations.** Four hours.
Prerequisite: ECO 435 or consent of the instructor.
A study of the problems and policies arising out of international economic relations and practices.

G-440—**Economic Growth.** Four hours.
Prerequisite: ECO 330.
A study of the nature, causes, and effects of regional and national economic development.

G-445—**Business Cycles.** Four hours.
Prerequisite: ECO 330.
A study of the nature, causes and effects of business cycles, and of policies to promote economic stability.

G-450—**Money Markets and Monetary Policy.** Four hours. Usually offered in alternate years.
Prerequisite: ECO 330.
A study of the nature and structure of money markets, of interest rate determination and patterns, and of the effects of monetary policy on money markets.

G-460—**Fiscal Theory.** Four hours. Usually offered in alternate years.
Prerequisite: ECO 330.
A study of the theoretical bases for governmental fiscal operations.

G-470—**Comparative Economic Systems.** Four hours.
Prerequisite: ECO 330.
A course designed to acquaint the student with the origins, development, and characteristics of fascism, socialism, communism, and capitalism.

G-482—**Contemporary Economic Problems I.** Two hours.
Prerequisite: ECO 330.
Usually offered in alternate years.
A study of the economic problems of monopoly, international trade, and income distribution.

G-484—**Contemporary Economic Problems II.** Two hours
Prerequisite: ECO 330.
Usually offered in alternate years.
A study of the economic problems of the business cycle, inflation, growth, and the size and influence of the public economy.

500—**Microeconomic Theory.** Four hours.
Prerequisite: ECO 340.
An advanced study of the theory of price.

505—**Macroeconomic Theory.** Four hours.
Prerequisite: ECO 345.
An advanced study of the theories of income and employment, general equilibrium, and growth.

510—**Monetary Theory and Fiscal Policy.** Four hours.
Prerequisite: ECO 330.
An advanced study of the determination of the level of prices and of alternative monetary and fiscal policies in the light of social goals.

515—**Managerial Economics.** Four hours.
An advanced study involving theory and actual cases in the application of economic analysis to the solution of business problems.

520—**Statistics for Quantitative Analysis.** Four hours.
Prerequisites: ECO 301 and 302, or equivalent.
The application of statistical procedure to business problems.

530—**History of Economic Thought.** Four hours.
Prerequisite: Consent of the instructor.
A study of the development of economic theory since Adam Smith.

550—**Problems in Political Economy.** Four hours.
Prerequisite: Consent of the instructor.
A study of national economic problems and a critical analysis of policies designed to solve or ameliorate them.

592—**Special Problems.** Two or four hours.

597—**Independent Study and Research.** Hours arranged.
Not to be counted as credit toward a degree.
Students who are not in residence but who are actively working on a thesis and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

598—**Thesis.** Six hours.

DEPARTMENT OF FINANCE (FIN)

G-415—**Government and Business.** Four hours.

Prerequisite: ECO 200 or 251.

A study of the place of government in the business world, with emphasis on types of controls, regulation of public service corporations and financial institutions, laws to enforce competition, and government aids to business.

G-425—**Life Insurance.** Four hours.

A comprehensive treatment of life insurance with the use of materials paralleling those approved by the American College of Life Underwriters.

G-432—**Real Estate Finance.** Four hours.

Functions of real estate finances; the loan contract; the mortgage market; elements of mortgage risk; loan policy and administration of loans; and analysis of current mortgage market conditions.

G-440—**Transportation.** Four hours.

Prerequisites: Principles of Economics and Principles of Marketing.

A study of the principles, practices, and problems of transportation that prevail in the United States.

G-445—**Fire and Casualty Insurance.** Four hours.

Prerequisite: A previous course in insurance.

An analysis of the fire policy, consequential loss contracts, ocean and inland marine risks, automobile underwriting, and business liability protection.

G-452—**Investment Finance.** Four hours.

Prerequisite: FIN 450.

The techniques of investment analysis as applied to industrial, railroad, public utility, and other securities, with emphasis placed upon the importance of a knowledge of American industry.

G-480—**Financial Management.** Four hours.

Study of the theory of assembling, investing, and managing capital. The principles of choosing from available, alternative combinations of short-term debt, long-term debt, and equity. The principles of evaluating and selecting capital projects; and the principles for combining capital and other inputs in such a way as to maximize efficiency and maintain liquidity.

530—**Problems in Finance.** Four hours.

Some of the leading problems in finance; including problems and cases in valuation, longterm financing, capital costs, mergers, and reorganization under corporate and railroad bankruptcy laws. Consideration will be given to social problems arising from corporate financial practices.

540—**Survey of American Financial Institutions.** Four hours.

An integrated study of the American financial structure designed to give the student an understanding of all the major American financial institutions, their organizational structures, functions, interrelationships, methods of operation, and the services each one provides in our economy.

580—**Seminar in Finance.** Four hours.

A study of selected problems in business finance.

585—**Business History.** Four hours.

The history of business and the role of business in shaping social and economic institutions. The origins and development of capitalism from medieval to modern times. Special attention will be given to the influence of American business leaders on the financial development of the United States.

592—**Special Problems I, II.** Two or four hours.

A study of specific problems in business administration. Credit will be determined by the nature and scope of the research project.

597—**Independent Study and Research.** Hours arranged.

Not to be counted as credit toward a degree.

Students who are not in residence but who are actively working on a thesis and consulting with the major professor or making use of the library of other University facilities must enroll in this course.

598—**Thesis.** Six hours. Credit deferred until thesis is completed.

DEPARTMENT OF MANAGEMENT (MGT)

G-468—**Wage and Salary Administration.** Four hours.

A study of wage and salary structures; preparation and use of job analysis, description and specifications; job evaluation, incentative systems and individual wage determination; and wage surveys, fringe benefits, and merit rating systems.

G-472—**Collective Bargaining.** Four hours.

Prerequisite: MGT 370.

A study of the practices, techniques, procedures, methods, and legal and administrative requirements of collective bargaining, with a consideration of the points of view of the worker, the union, the employer, and the general public.

G-482—**Production Problems Seminar.** Four hours.

Prerequisites: Management majors only and consent of adviser.

Special study of selected current problems in manufacturing production. A case approach to such problems as plant and warehouse location, selection and maintenance of equipment, product mix and quality, purchasing, and production controls.

G-484—**Problems in Personnel Administration.** Four hours.

Prerequisites: Management majors only and consent of adviser.

An application through case analysis of the principles and techniques in personnel administration. A problem and case approach to develop proficiency in applying principles and developing decision-making ability.

520—**Problems in Management.** Four hours.

A concentration of selected social, economic, industrial, and personnel problems in current managerial practice.

525—**Human Relations in Business.** Four hours.

A study of the problems of individuals and groups resulting from modern business organizations and techniques. Emphasis on motivations for work and cooperation between executives and different economic and social groups.

560—**History and Philosophy of Management.** Four hours.

A course designed to give the student a review and analysis of the writings of Taylor, Gilbreth, Fayol, and later writers in the development of scientific and modern management. Changing philosophies, thoughts, and ideas in the field of management will be emphasized.

565—**Organization Theory and Practice.** Four hours.

The design, analysis, and evaluation of organizational structures in a business environment. Included are contemporary developments in the behavioral sciences, communications, quantitative and scientific management, and other areas affecting the administrative process.

570—**Business Policy.** Four hours.

A study of the fields of policy-making and administration from a top management point of view. It integrates special fields of analysis and stresses the overall point of view in handling business problems.

DEPARTMENT OF MARKETING (MKT)

G-410—**Market Research.** Four hours.

Prerequisites: MKT 300 and MAT 320.

A study of principles and techniques used in market research and evaluation of such research.

G-432—**Advanced Retailing.** Four hours.

Prerequisite: MKT 332.

A study of the various operations performed in a retail store. The modified case method is used.

G-475—**Promotion Development.** Four hours.

A study of the relationship of the business organization to the various interest groups which affect its promotional results, and the policies and procedures utilized in connection with such groups.

G-480—**Marketing Management.** Four hours.

A comprehensive course designed to synthesize the more specialized marketing knowledge of the student. The interrelation of all marketing activities in reaching the firms objectives is emphasized through the study of case histories.

535—**Seminar in Marketing.** Four hours.

An advanced study of marketing theories and phenomena.

540—**Market Planning.** Four hours.

A case study of the methods used by firms to reach their marketing goals.

550—**Market Research Seminar.** Four hours.

A study of advanced research techniques used in market analysis.

SCHOOL OF EDUCATION AND PSYCHOLOGY

Carlton L. McQuagge, Dean

L. Conrad Welker, Assistant Dean

Requirements for Admission to Graduate Programs

Any student desiring to enroll in the University of Southern Mississippi Graduate School for post-baccalaureate study in the School of Education and Psychology must first meet the general requirements for enrollment outlined in Part III of this **Bulletin.** In addition, the applicant must be approved by the chairman of the department in which he plans to study, by the Dean of the School of Education and Psychology, and by the Dean of the Graduate School.

The Miller Analogies Test and the Graduate Record Examination will be required of doctoral students in the School of Education and Psychology, and admission will be considered as tentative until these tests are completed.

Those applicants who wish to study for a master's degree in any area of professional public school work should study for the Master of Education degree, and, therefore, must first hold or qualify to hold a Class A teaching certificate based on a baccalaureate degree in the area in which they wish to concentrate. A Master of Education degree applicant who does not yet qualify for an A certificate may be admitted to the Graduate School, but must meet the requirements of the State of Mississippi for an A certificate in teaching before the degree will be awarded. However, upon the recommendation of the departmental chairman, the Dean of the School of Education and Psychology may waive the requirement of satisfying certification requirements for those students currently employed or preparing for employment in junior or senior colleges, non-public institutions, or positions not requiring certification. In the event that certification requirements are waived, it is incumbent upon the student to recognize this limitation upon the scope of the areas within which he might seek employment in the future.

Degree and Specialist Programs Offered

The School of Education and Psychology offers graduate programs at three levels: master's degree; specialist certificate; and doctor's degree.

Master's Degrees: Master's degrees are offered in the following departments, with majors as indicated:

Department of Business Education
- Master of Science
- Master of Education

Department of Educational Administration, Supervision, and Curriculum
- Master of Education in Educational Administration
- Master of Education in Supervision of Instruction

Department of Elementary Education
- Master of Education in Elementary Education
- Master of Education in Early Childhood Education
- Master of Science in Reading

Department of Guidance
- Master of Education in School Counseling
- Master of Science in:
  - College Counseling
  - Community Counseling

Department of Health, Physical Education, and Recreation
- Master of Science in Health
- Master of Education in Health and Physical Education
- Master of Science in Recreation

Department of Industrial Arts
Master of Science

Department of Library Science
Master of Arts
Master of Science

Department of Psychology (including Educational Psychology and Special Education)
Master of Arts
Master of Science
Master of Education in Special Education

Department of Science Education
Master of Science

Department of Secondary Education
Master of Education
Master of Science

Specialist Certificates: Specialist Certificates are offered in the following departments, with majors as indicated:

Department of Business Education
Specialist Certificate in Business Education

Department of Educational Administration, Supervision, and Curriculum
Specialist Certificate in Educational Administration

Department of Elementary Education
Specialist Certificate in Elementary Education
Specialist Certificate with Emphasis in Reading

Department of Guidance
Specialist Certificate in School Counseling

Department of Secondary Education
Specialist Certificate in Secondary Education

Doctoral Degrees: The following departments offer the Doctor of Education and/or the Doctor of Philosophy degree:

Department of Educational Administration, Supervision, and Curriculum

Department of Elementary Education

Department of Guidance

Department of Health, Physical Education, and Recreation

Department of Secondary Education.

The Department of Psychology offers the Doctor of Philosophy degree in psychology and in clinical psychology, and the Doctor of Education degree in educational psychology.

Doctoral work in educational psychology with special emphasis on the Psychology of Mental Retardation is also offered.

DEPARTMENT OF BUSINESS EDUCATION (BED)

Annelle Bonner, Chairman
Baldwin Cameron Reck

The Department of Business Education offers programs of study leading to the Master of Science degree in business education, the Master of Education degree in business education, Certification in cooperative office education, and an Education Specialist Certificate in business education. Persons who plan to teach business subjects in junior and senior colleges, who desire Class AA certification in secondary education, who desire certification in cooperative office education, or who desire additional training for employment in the business world can find a program suited to their professionl goals. A person pursuing any one of these programs should have completed an undergraduate major in business teacher education. Candidates not having completed this major must become eligible for class A certification as a business teacher as a prerequisite to the completion of all requirements for the first three programs listed. To be eligible for admission to the Education Specialist Certificate program, a person must present evidence of satisfactory scholarship in undergraduate and graduate study, hold a master's degree with a major in business education, have a well-defined professional goal, and meet other admission requirements of the University.

The appropriate master's degree will be conferred upon candidates who (1) meet the general requirements of the Graduate School; (2) complete the special curriculum requirements outlined below; and (3) pass an oral examination. In addition a comprehensive written examination covering course content may be required by the Department of Business Education. A thesis is optional.

The Education Specialist Certificate will be conferred upon candidates who satisfactorily complete items (1) and (2) in the preceding paragraph, (3) pass oral and written examinations, and (4) complete a research problem.

MASTER OF SCIENCE DEGREE PROGRAM

Curriculum Requirements

	Hours
FIN 540—American Financial Institutions	4
FIN 585—Business History	4
*Electives in School of Business Administration	16
FED 501—Research: Its Introduction and Methodology	4
FED 504—Foundations in American Education	4
BED 551—Principles of Business Education	4
BED 552—Seminar in Business Education	4
Electives or thesis	6
	46

MASTER OF EDUCATION DEGREE PROGRAM

Curriculum Requirements

	Hours
EDUCATION: 12 quarter hours	
FED 501—Research: Its Introduction and Methodology	4
FED 504—Foundations in American Education	4
EPY 510—Advanced Educational Psychology	4
BUSINESS ADMINISTRATION: 12 quarter hours	
ECO G-470—Comparative Economic Systems	4
MGT G-464—Human Relations in Business	4
FIN 585—Business History	4

BUSINESS EDUCATION: 22 quarter hours

BED 508—Curriculums in Business Education	4
BED 551—Principles of Business Education	4
BED 552—Seminar in Business Education	4
BED 569—Measurement and Evaluation in Business Education	4
Electives or thesis	6
	46

*Electives are to be chosen in consultation with the Chairman of the Department.

It is recommended that FED 501, the research course, be taken early in each program.

CURRICULUM FOR COORDINATORS OF BUSINESS AND OFFICE EDUCATION PROGRAMS

Persons who hold a Bachelor of Science degree with a major in business teacher education may take the three courses listed below and become certified as coordinators of business and office education programs.

	Hours
BED G-452—Philosophy of Vocational Business Education	4
BED G-453—Coordination of Office Occupations Programs	4
BED 591—Problems in Cooperative Office Education	2

EDUCATION SPECIALIST CERTIFICATE

Curriculum Requirements

As part of the requirements for the Specialist Certificate with a major in business education, a student must maintain satisfactory scholarship in completing the following course work:

1.	**Required courses in basic education or equivalent**	20 hours
	Select five:	
a.	FED 501—Research: Its Introduction and Methodology	4 hours
b.	FED 504—Foundations in American Education	4 hours
c.	GED 506—Foundations in Guidance	4 hours
d.	FED 507—Basic Course in Curriculum Development	4 hours
e.	EPY 510—Educational Psychology	4 hours
f.	FED 532—Measuring Results in Education	4 hours
2.	**Area Major** (specialization in business education)	28 hours
a.	BED 504—Foundations in Business Education	4 hours
b.	BED 551—Principles of Business Education	4 hours
c.	Select two:	
	BED 553—Improvement of Instruction in Bookkeeping and Related Basic Skills	4 hours
	BED 555—Improvement of Instruction in Typewriting and Related Skills	4 hours
	BED 556—Improvement of Instruction in Shorthand and Transcription	4 hours
d.	BED 601—Seminar in Business Education	4 hours
e.	BED 660—Administration and Supervision in Business Education	4 hours
f.	BED 698—Research Problem	4 hours

3. **Related Field** 20 hours.
The related field selected should both complement and supplement the major area in rounding out the preparation for one of the career goals of the specialist program, i. e., (a) advanced technical education for business; (b) teacher education; or (c) administration and supervision. Course credits earned in the basic courses in education are not applicable to the related field.

With the approval of the candidate's advisory committee, a related field may be selected from one of the following: (a) school administration; (b) guidance; (c) educational psychology; (d) vocational education; (e) techniques (research, statistics, and tests and measurements); (f) secondary education.

Also with the approval of the candidate's advisory committee, a combination of courses selected primarily from the foregoing fields may constitute a related field provided such selection contributes directly to the career goal of the candidate.

4. **Outside minor** - field other than education 16 hours.
Ordinarily a candidate pursuing the Education Specialist Certificate with a major in business education should pursue an outside minor in busines administration and/or economics.

5. **Elective courses** (ten (10) quarter hours provided minimum hours are taken in the basic, major, related, and minor areas) 0-10 hours.
Electives should be selected with approval of adviser to strengthen the candidate's vocational preparation for his chosen career goal.

Scholarship and Examinations

In addition to achieving acceptable scores on admission examinations and maintaining satisfactory scholarship throughout the course work, a candidate will be required to achieve satisfactorily in both written and oral comprehensive examinations in business education.

Completion of Work for Certificate

A candidate must complete the requirements for the Specialist Certificate within six years from the date of admission to candidacy.

COURSE DESCRIPTIONS (BED)

G-452—**Philosophy of Vocational Business Education.** Four hours.

History of vocational business education; changing concepts resulting from Federal legislation; changing nature of office systems and occupations; changing employment opportunities and consequent changes in procedures and techniques of vocational business education.

G-453—**Coordination of Office Occupations Programs.** Four hours.

Problems of the coordinator in the development of programs to meet the needs of employed youth and adults in office occupations programs.

G-460—**Office Management.** Four hours.

A study of the principles of management as applied to office work, covering office organization, supervision, layout, supplies, machines, personnel, office forms and reports, and office services.

504—**Foundations in Business Education.** Four hours.

Examination and analysis of the history and philosophy of business education.

508—**Curriculums in Business Education.** Four hours.

Curriculum construction; content organization; selection and preparation of instructional materials; and application of instructional techniques.

551—**Principles of Business Education.** Four hours.

Principles and objectives of business education in junior high school, high school, and junior college and other post high school institutions; guidance; qualifications and professional activities of the business teacher; and public relations with business.

552—**Seminar in Business Education.** Four hours.

An intensive study of specific problems in business education, and a survey of literature pertaining to the problems.

553—**Improvement of Instruction in Bookkeeping and Related Basic Skills.** Four hours.

Problems and procedures in the mastery of bookkeeping and related knowledges and skills; materials and teaching procedures in bookkeeping and business mathematics; teaching problems emphasized; significant research relating to methodology and testing examined.

555—**Improvement of Instruction in Typewriting and Related Skills.** Four hours.

Teaching procedures basic to vocational proficiency in typewriting and related skills; available instructional materials; measurement of skills; standards of achievement; teaching problems of students in class; review of related research.

556—**Improvement of Instruction in Shorthand and Transcription.** Four hours.

Problems in the development of occupational proficiency in shorthand; available instructional materials; transcription problems; integration of shorthand, typewriting, English, and style; achievement tests; standards of achievement. Special attention to teaching problems of students in the class. Evaluation of related literature and research.

569—**Measurement and Evaluation in Business Education.** Four hours.

Concept of evaluation; tools of evaluation; evaluation in the different business subjects; construction of tests; selection, administration, and scoring of tests; determination of grades; evaluation on the job (National Business Entrance Tests, Civil Service, et cetera).

591—**Problems in Cooperative Office Education.** Two hours.

Analysis of problems in administering cooperative office education programs.

592—**Special Problems I, II, III.** One hour each.

A problem study to be approved by the department chairman to develop knowledge and facility in a field of interest of the student. Preparation of a scholarly paper is required.

Prerequisite: 12 quarter hours of advanced courses in business education.

594—**Field Problems.** Four hours.

597—**Independent Study and Research.** Hours arranged.

Not to be counted as credit toward a degree.

Students who are not in residence but who are actively working on a thesis and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

598—**Thesis.** Six hours. Credit is deferred until thesis is completed.

601—**Seminar in Business Education.** Four hours.

Analysis and evaluation of significant research studies in the field of business education.

660—**Administration and Supervision of Business Education.** Four hours.

Study of the principles, agencies, and general techniques of effective administration and supervision of business education in junior high, senior high, and evening high schools, and in colleges.

691—**Research in Business Education.** One to twelve hours.

697—**Independent Study and Research.** Hours arranged.

Not to be counted as credit toward a degree.

Students who are not in residence but who are actively working on a research problem and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

698—**Research Problem.** Four hours.

DEPARTMENT OF EDUCATIONAL ADMINISTRATION, SUPERVISION, AND CURRICULUM (AED)

James H. Mailey, Chairman

Anzalone Baxter Holden Lucas McPhail McQuagge Owings

The programs for the major in educational administration encompass the full range of administrative positions and lead to the master's degree, the specialist certificate, and the doctor's degree. Programs at the master's degree level provide preparation in the elementary school principalship, the junior high school principalship, the high school principalship, and supervision of instruction. Programs at the specialist certificate and doctorate levels provide preparation for the superintendency and central administrative staff positions. In addition, the program at the doctorate level provides preparation for college teachers of school administration.

The following course patterns for the different levels set forth only the minimum core requirements, and the electives selected to suit individual needs and objectives must be chosen with the advice and approval of the student's major professor. Therefore, it is mandatory that the student consult early in his program, and frequently thereafter, with his major professor concerning the selection of courses and sequence in which these courses will be taken.

DEPARTMENTAL POLICIES

The following departmental policies are supplementary to the rules and regulations of the University and the Graduate School as set forth elsewhere in this **Bulletin.**

MASTER'S DEGREE

Admission

Regular: A minimum grade point average of 2.75 and a combined score of 750 on the aptitude phase of the Graduate Record Examination.

Conditional: For students unable to meet the foregoing grade point requirements, conditional admission may be granted on the basis of faculty action. For conditionally admitted students the first twelve (12) quarter hours of the program must be taken on the main campus of the University.

Admission to Candidacy

1. It is mandatory that the application for admission to candidacy be submitted upon the completion of twelve (12) to sixteen (16) quarter hours of course work at the University of Southern Mississippi.
2. Satisfactory completion of the English Proficiency Examination.

Application for Graduation Graduation is based upon:

1. Completion of a minimum of thirty (30) quarter hours of course work after admission to candidacy including transfer credits, if accepted.
2. Completion of an approved program of studies.
3. Satisfactory completion of the comprehensive examination.

SPECIALIST CERTIFICATE

Admission

Regular: A minimum grade point average of 3.15 on previous graduate work and a combined score of 800 on the aptitude phase of the Graduate Record Examination.

Conditional: See above with regard to the master's degree.

Admission to Candidacy

The admissions to candidacy within this certificate program are the same as prescribed for the master's degree.

Application for Graduation Graduation is based upon:

1. Completion of a minimum of thirty (30) quarter hours of course work after admission to candidacy including transfer work, if accepted.
2. Completion of an approved program of studies as determined by the student's committee and which may consist of more than the minimum forty-six (46) quarter hours of credit required for graduation.

3. Satisfactory completion of the comprehensive examination.
4. Successful defense of the research project.

DOCTORAL DEGREE

Admission

Regular: A minimum grade point average of 3.25 on previous graduate work and a combined score of 900 on the aptitude phase of the Graduate Record Examination.

Conditional: For students unable to meet the foregoing requirements, the departmental faculty may at its discretion grant conditional admission pending the results of the qualifying entrance examination. If the examination is failed, the student is automatically excluded from admission as a doctoral program student.

Qualifying Entrance Examination

1. Must be taken prior to the completion of twenty-four (24) quarter hours of study within the department.
2. May not be taken prior to the receipt of satisfactory GRE scores, the results of the Millers Analogies Test, and satisfactory completion of the English Proficiency Examination.
3. Regularly admitted doctoral students who fail the examination may repeat it upon the completion of twenty-four (24) quarter hours of credit after the quarter in which the examination was taken.
4. The results of a master's degree comprehensive examination may not be substituted for this examination.

Admission to Candidacy Admission to candidacy will be approved by the student's graduate committee upon:

1. Progress toward the completion of an approved program of studies.
2. Satisfaction of the language or statistics requirement.
3. Completion of an approved dissertation prospectus.

Application for Graduation Graduation is based upon:

1. Completion of the approved program of studies.
2. Completion of the residence requirement.
3. Satisfactory completion of the comprehensive examination.
4. Successful defense of the completed dissertation.

For the Master of Education degree in Educational Administration.

FED 501—**Research: Its Introduction and Methodology.** Four hours. (Initial enrollment in the program must be in this course)
FED 504—**Foundations in American Education.** Four hours.
FED 507—**Basic Course in Curriculum Development.** Four hours.
EPY 510—**Advanced Educational Psychology.** Four hours.
AED 520—**Basic Course in Educational Administration.** Four hours.
AED 526—**Supervision of Instruction.** Four hours.**
AED 550—**School Business Management.** Four hours.**
AED 598—**Thesis.** Six hours. Credit deferred until thesis is completed.*

Total—28 or 34 hours.

Electives—12 or 18 hours. Included among the elective courses must be one of the following as approved by the student's adviser:
AED 513—**Organization and Administration of the Junior High School.** Four hours.**
AED 516—**Secondary School Administration.** Four hours.**
AED 518—**The Elementary School Principal.** Four hours.**

*Required only of students writing a thesis.

**Prerequisite: AED 520.

For the Master of Education degree in Supervision of Instruction:

FED 501—**Research: Its Introduction and Methodology.** Four hours. (Initial enrollment in the program must be in this course.)
FED 504—**Foundations in American Education.** Four hours.
FED 507—**Basic Course in Curriculum Development.** Four hours.
EPY 510—**Advanced Educational Psychology.** Four hours.
AED 520—**Basic Course in Educational Administration.** Four hours.
AED 526—**Supervision of Instruction.** Four hours.**
AED 638—**Practicum in Supervision.** Four hours.***
AED 598—**Thesis.** Six hours. Credit deferred until thesis is completed.*

Total—28 to 34 hours.

Electives—12 or 18 hours. These courses will be chosen from the fields of curriculum and instruction subject to the approval of the student's major professor.

*Required only of students writing a thesis.

**Prerequisite. AED 520

***Prerequisite: AED 526

For the Education Specialist Certificate:

AED 611—**Advanced Curriculum Development.** Four hours.
AED 636—**Practicum in Educational Administration.** Four hours.
AED 638—**Practicum in Supervision.** Four hours.
AED 668—**Public School Finance.** Four hours.
AED 698—**Research Problem.** Four hours.
AED 700—**Advanced School Administration and Supervision.** Four hours.
AED 704—**School Community Relations.** Four hours.

AED 706—**Administration of School Buildings and Grounds.** Four hours.
AED 710—**School Law.** Four hours.

Total—36 hours.

Electives—10 hours minimum. These courses will be chosen with the approval of the student's major professor, and additional hours may be required to satisfy deficiencies in the student's study beyond the bachelor's degree.

For the Doctoral Degrees:

AED 611—**Advanced Curriculum Development.** Four hours.
AED 636—**Practicum in Educational Administration.** Four hours.
AED 638—**Practicum in Supervision.** Four hours.
AED 668—**Public School Finance.** Four hours.
AED 700—**Advanced School Administration and Supervision.** Four hours.
AED 704—**School Community Relations.** Four hours.
AED 706—**Administration of School Buildings and Grounds.** Four hours.
AED 708—**Administration of School Personnel.** Four hours.
AED 710—**School Law.** Four hours.
AED 797—**Independent Study.** Hours arranged.

Total—44 hours.

Electives: Among these, the student's program shall include a minimum of twelve (12) quarter hours of graduate credit in cognate areas, preferably in the social sciences. Additional electives will be selected to complete a program of a minimum of 118 graduate hours beyond the bachelor's degree exclusive of the dissertation. The student's advisory committee will approve the selection of electives and may require a program of more than the minimum of 118 hours in order to secure breadth and depth in the student's preparation program and to satisfy deficiencies as revealed by the Qualifying Entrance Examination.

Each doctoral student will be required to participate in a variety of laboratory and field experiences many of which may not be connected with specific courses.

COURSE DESCRIPTIONS (AED)

513—**Organization and Administration of the Junior High School.** Four hours.

The philosophy, functions, and curriculum and their implementation in the organization and administration of the junior high school program.

516—**Secondary School Administration.** Four hours.

The practical problems encountered by high school principals: scheduling, calendar, attendance, discipline, office management, records and reports, activities, selection and supervision of staff; the principal's professional growth, and his relationship to the school, teachers, and patrons.

517—**Administration of Audio-Visual Communications Programs.** Four hours.

Prerequisite: Basic courses in the field or by permission.

Considers problems in management of an intergrated program, including production, selection, utilization and administration of communications media; problems of finance; functions and organization of different services; relationship among school systems, college, and community groups; and evaluation standards for various services.

518—**The Elementary School Principal.** Four hours.

A study emphasizing the administrative problems faced by the principal. Considers practices in administration, supervision, school plant, supplies and equipment, attendance, curriculum, personnel, and parent-teacher cooperation. Stresses the professional leadership of the principal.

520—**Basic Course in Educational Administration.** Four hours.

A basic course designed for teachers and prospective school administrators. This course emphasizes school organization, business management, personnel, public relations, school policies, board policies, leadership, school construction, school plant maintenance, transportation, special services, and evaluation.

526—**Supervision of Instruction.** Four hours.

A practical course in supervision from the standpoint of the elementary, junior high, or high school principal and supervisor of instruction. Deals with principles and procedures of supervision.

542—**Supervision and Curriculum in Reading.** Four hours.

A study of organizational patterns in reading curricula and methods of improvement in reading instruction in schools from the point of view of the reading supervisor or consultant and the school administrator.

550—**School Business Management** Four hours.

A practical course in school business administration and in the management of school property and school supplies.

555—**Problems of the County Superintendent.** Four hours.

A course designed for county superintendents in which they study their problems under the direction of a graduate professor.

592—**Special Problems I, II, III.** One to three hours.

A problem study to develop knowledge and facility in a field of interest for the student which requires preparation of a scholarly paper under the supervision of a graduate professor. This registration must be approved by the departmental chairman upon the recommendation of the student's major professor.

594—**Field Problems in Production I and II.** Four hours each.

Opportunity to study local school problems of curriculum revision, course of study construction, evaluation of methods, building projects, community surveys, testing programs, and record systems under careful supervision of a graduate professor.

The project must be approved by the departmental chairman upon the recommendation of the student's major professor.

597—**Independent Study and Research.** Hours arranged.

Not to be counted as credit toward a degree.

Students who are not in residence but who are actively working on a thesis and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

598—**Thesis.** Six hours. Credit deferred until thesis is completed.

611—**Advanced Curriculum Development.** Four hours.

This course is designed for the school administrator who has or will have responsibility for curriculum development in a school system. Areas covered are: modern elementary, junior high school, and senior high school curricula; the scope and sequence of curriculum patterns for a school system; correlation of elementary, junior high, and senior high curriculum and courses of study; in-service education of the instructional staff; and the utilization of community in curriculum development.

636—**Practicum in Educational Administration.** Four hours.

A study emphasizing problems connected with modern educational administration. Contemporary theories of administration are related to the problems of administering the public schools.

638—**Practicum in Supervision.** Four hours.

A study emphasizing problems connected with supervision from the curriculum director or superintendent.

668—**Public School Finance.** Four hours.

Principles of taxation; local, state, and federal financing of public education; equalization of educational opportunity, budget making.

691—**Research in Education Administration, Supervision, and Curriculum.** One to twelve hours.

692—**Special Problems.** Four hours.

697—**Independent Study and Research.** Hours arranged.

Not to be counted as credit toward a degree.

Students who are not in residence but who are actively working on a research problem and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

698—**Research Problem.** Four hours.

Selection of practical educational problems for solution by candidates for Education Specialist Certificate, using research and professional knowledge. A scholarly report is required.

700—**Advanced School Administration and Supervision.** Four hours.

This course deals with the theory and concepts underlying present day school administration and supervision.

704—**School Community Relations.** Four hours.

A study of public relations problems including reporting to parents and acquainting the community with the purposes, methods, accomplishments, and needs of the school.

706—**Administration of School Buildings and Grounds.** Four hours.

Designed for the local superintendent, treating the problem of housing, such as surveys, architect, finance, site, plans and specification, equipment, awarding contract, construction procedures, accepting, building and care of the grounds.

708—**Administration of School Personnel.** Four hours.

A course stressing the administrative relationships involved in developing satisfactory personnel policies, techniques, and regulations dealing with the pupil, the staff, and the public. The general principles of personnel management as they affect the pupil and staff, instructional and noninstructional, will be covered.

710—**School Law.** Four hours.

Legal aspects of such factors as school income, injury to pupils, keeping the school census, enforcing attendance, teaching certain subjects, and related matter.

711—**Higher Education in the United States.** Four hours.

This course provides an overview of the development, scope, philosophy, objectives, and recent innovations in colleges and universities.

712—**The Junior College.** Four hours.

This course treats the development, functions, programs, philosophy, issues, and research related to the junior college.

713—**Curricula in Higher Education.** Four hours.

This course is concerned with curricula offered in the junior and senior college with particular attention to problems and issues in general education, technical education, professional education, and graduate education. Innovation and research in instruction will also be considered.

714—**Organization and Administration of Higher Education.** Four hours.

This course is designed to: examine typical organizational patterns of colleges and universities; develop an understanding of the basic functions of governing and coordinating boards and of officials involved in college and university administration; and develop an understanding of principal problems faced in the administration of institutions of higher learning.

790—**Administrative Workshop I, II, III, IV, and V.** One and one-half hours per week. (Course may be repeated, with only nine hours counting toward a degree.)

791—**Research in Educational Administration, Supervision, and Curriculum.** One to twelve hours.

Prerequisite: Approval of the major professor.

794—**Field Problems in Administration I, II, III.** One hour each.

A project dealing with a specific problem in school administration. An on-the-job training program with the work being done under the supervision of a graduate professor. This registration must be approved by the departmental chairman upon the recommendation of the student's major professor.

797—**Independent Study and Research.** Hours arranged.

Not to be counted as credit toward a degree.

Students who are not in residence but who are actively working on a dissertation and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

798—**Dissertation.**

DEPARTMENT OF EDUCATIONAL FOUNDATIONS (FED)

H. B. Easterling, Chairman

Ashburn Baxter Gunn Knight McQuagge Peddicord

The Department of Educational Foundations is essentially a service department. It offers no degree programs or majors. Its purpose is to offer foundation courses in education required by a number of departments in the University.

COURSE DESCRIPTIONS (FED)

501—**Research: Its Introduction and Methodology.** Four hours.

Methods of scientific inquiry, selection of a research topic, and functional statistics.

504—**Foundations in American Education.** Four hours.

A survey of the philosophies, psychologies, and history of American education intended to give the student a fundamental understanding of more specialized courses in these fields. Required of all graduate students.

507—**Basic Course in Curriculum Development.** Four hours.

A study of social and psychological factors influencing curricular planning, principles and procedures for validating educational objectives, selecting and structuring experiences, initiating and directing curricular change, and evaluating results of curricular planning.

509—**Social Foundations of Education.** Four hours.

A study of contrasting motivations and values of various cultural groups and their implications for education. Particular emphasis is given to the economically and culturally disadvantaged.

519—**Utilization, Selection and Preparation of Audio-Visual Materials.** Four hours.

General principles, problems, and practices involved in the selecting, utilizing, and preparing of audio-visual materials for instructional purposes. Emphasis on the advantages, limitations, and practical uses of each major type of material.

532—**Measuring Results in Education.** Four hours.

A course designed to equip the teacher for effective selection and construction of tests for measuring specific achievement of teaching objectives and for statistical interpretation of data. Stresses use of teacher-made tests.

535—**Advanced Production Techniques.** Four hours.

Deals with the communications skills involving the production of basic types of audio-visual materials. Theory and practices are covered relative to planning, shooting, and editing picture stories.

552—**Educational Research: Descriptive Statistical Methods.** Four hours.

Prerequisite: PSY 450 or permission of instructor.

A brief review of elementary statistics and normal curve functions. A study of correlation theory and application to research data, methods of computation of Pearson product moment correlation, biserial correlations, tetrachoric correlation, contingency correlation, partial correlation and multiple correlation. An introduction to sampling within the framework of educational problems.

553—**Educational Research: Significance Tests and Research Design.** Four hours.

Prerequisite: FED 552.

A brief review of measures of central tendency and variability. A study of inference and sampling theory with emphasis on parametric and nonparametric tests and significance: critical ratio, t-tests, Chi square, analysis of variance. An adaptation to problems relevant to education.

716—**History of Public Education in the United States.** Four hours.

A critical survey of the development of public education with emphasis on the social, political, religious, and economic forces that have influenced this development.

718—**Comparative Philosophies of Education.** Four hours.

A critical examination of philosophies and theoretical concepts of leading modern philosophies and their significance for educaton.

796—**Advanced Educational Research I, II.** Two hours each quarter for two quarters.

The first quarter of the seminar is concerned primarily with problems related to philosophy and scientific method as applied to educational research design, types of educational research, and methods of observation and data collection.

The second quarter of the seminar is concerned primarily with problems related to design, measurement, analysis, and interpretation of educational research.

DEPARTMENT OF ELEMENTARY EDUCATION

John P. Van Deusen, Chairman

Carmichael Eaton D. Knight Lorton Miller Wall Warren

The Department of Elementary Education offers programs of study leading to the Master of Education degree in elementary education, Master of Education degree in early childhood education, Master of Science degree in reading, Specialist Certificate in elementary education, Specialist Certificate with emphasis in reading, Doctor of Education degree in elementary education, and Doctor of Education degree in elementary education with emphasis in reading.

Admittance to the Graduate Program within the Department of Elementary Education requires the following Graduate Record Examination scores. Candidates seeking admission to the master's degree program must earn a combined score (verbal plus quantitative sections) in excess of 800; candidates seeking admission to the specialist certificate program must earn, a combined score in excess of 900; and candidates seeking admission to doctoral program of studies must earn a combined score in excess of 1,000 points.

In the event a candidate wishes to be admitted to the program of studies at the master's, specialist's, or doctoral level prior to completing the Graduate Record Examination, he may be so admitted on a **provisional** basis. Furthermore, all candidates will be required to complete and report scores of the Graduate Record Examination within the initial twelve (12) hours of program. It should be noted that **provisional** admission does not qualify a candidate for degree status. Therefore, **provisional** admission, after the initial twelve (12) hours of study, will be automatically changed to degree granting programs or non-degree granting programs contingent upon satisfaction of departmental requirements.

Only candidates holding a class A certificate, or who exhibit willingness to meet class A certification requirements at the undergraduate level prior to completion of the master's program, will be admitted at the master's level or the specialist certificate level to the Department of Elementary Education.

The program of study at the master's degree level and the specialist certificate level are designed as complementary programs to an undergraduate major in elementary education. The primary purpose of these programs is to increase professional competency for the classroom teacher and to provide the necessary course work in order to meet standards of teacher certification at these advanced levels. A graduate adviser will be assigned as the candidate is admitted to the program.

The programs of study leading to the Specialist Certificate are designed to further support classroom performance and to meet certification requirements in those states which recognize the specialist rank. The course sequence will be designed in such a manner as to provide a wide range of course work and other experiences which will equip the candidate to operate in a more contributing role at the local school level.

The Doctor of Education degree is offered in the areas of general elementary education and also with an emphasis on reading. Successful completion of either of these programs prepares the candidate to teach at the college and university level and to assume leadership roles in varied areas of public education and private institutions relative to broad dimensions of reading and general elementary program.

Prerequisites: No student will be allowed to matriculate for the Master of Education degree in any of the related fields of elementary education until he has completed at least one year of teaching experience and has presented state credentials for class A elementary teacher certification or its equivalency. All students electing a thesis program in any related field of elementary education at the master's degree level should consider at least one graduate course in statistics.

Master of Education Degree in Elementary Education

The following sequence of required courses leading to the Master of Education degree in general elementary education is offered as the initial foundation of graduate study in elementary education. These courses meet general certification requirements for the master's program in elementary education. Considerable latitude remains for electives, and the candidate is encouraged to pursue areas of graduate study which will best support his individual professional expectations or responsibilities. The candidate is expected to fulfill his program of study after advisement from his graduate adviser.

FED 501—Research: Its Introduction and Methodology. Four hours.
FED 504—Foundations in American Education. Four hours.
EED 506—Psychology of Reading. Four hours.
or
EED 529—Reading in the Elementary School: Current Materials and Methods. Four hours.
AED 520—Basic Course in Educational Administration. Four hours.
EED 528—Curriculum Problems in the Elementary School. Four hours.
FED 532—Measuring Results in Education. Four hours.
EED 574—Advanced Child Psychology. Four hours.
EED 598—Thesis Optional. Credit deferred until thesis is completed. Six hours.

Total—28 or 34 hours
Free Electives—18 or 12 hours

Master of Education Degree in Early Childhood Education

The following sequence of required courses leading to the Master of Education degree in Early Childhood Education is designed to meet general requirements at the graduate level for preschool and early childhood teaching responsibilities. The latitude provided within the elective area of program is offered as an opportunity for the candidate to pursue additional courses of study in the related fields of early childhood education. The student is expected to fulfill his program of studies at the advice of his graduate adviser.

FED 501—Research: Its Introduction and Methodology. Four hours.
FED 504—Foundations in American Education. Four hours.
EED 570—Practicum in Early Childhood Education. Four hours.
EED 572—Practicum with Parents. Four hours.

EED 574—Evaluation in Early Childhood Education. Four hours.
EED 576—Seminar in Early Childhood Education. Four hours.
EED 578—Art and Child Development. Four hours.
EED 580—Research in Child Development. Four hours.
EED 598—Thesis. Optional. Credit deferred until thesis is completed. Six hours.
Total—32 or 38 hours.
Free Electives—14 or 8 hours.

Specialist Certificate in Elementary Education

The Department offers a specialist certificate in the related fields of elementary education as an intermediate step between the master's degree and the doctoral degree. The specialist program requires regular admittance procedures, appointment of a graduate adviser, filing an approved program of studies, completion of an approved field study, and successful completion of a written comprehensive examination.

Course work within the general elementary specialist program includes the requirements outlined under the master's program in elementary education and also requires the candidate to declare an area of depth in pursuit of a content or curriculum field. Due to the varied backgrounds and purposes of the candidates, the specific course sequence generally becomes highly individualized and, therefore, subject to the approval of the graduate adviser, departmental chairman, and appropriate deans. Detailed information is available upon request from the office of the Chairman of the Department.

Doctor of Education Degree in Elementary Education

There exists no detailed and prescriptive program of studies leading to the doctoral degree in elementary education. Whereas certain limited general requirements exist, these are comprehensive in nature and relate basically to specific elementary seminars, statistics requirements, and dissertation procedures. Every effort will be made to allow the student to pursue areas of individual interest in fulfillment of a major and minor area of study. Students are encouraged to interact, when interest and need is apparent, with various departments within the School of Education and Psychology as well as the College of Arts and Sciences and the School of Fine Arts.

There remain three distinct phases through which all students proceed in pursuit of the doctoral program. These include:

1. Phase One—involving procedures relative to general admittance requirements, appointment of major professor, qualifying examinations, and oral interview.
2. Phase Two—involvement in procedures relative to tentative program of studies, appointment of the candidate's doctoral committee, comprehensive examination, and acceptance of prospectus.
3. Phase Three—procedures relative to admittance to full doctoral candidacy, completion of course work, and approval of dissertation.

Detailed information of the above described program is available upon request from the Chairman of the Department. The following courses are required of all candidates pursuing the doctoral program in general elementary education.

PSY 562—Research Methods: Descriptive Statistical Methods. Four hours.
or
FED 552—Educational Research. Four hours.
PSY 563—Research Methods: Significance Tests and Experimental Designs. Four hours.
or
FED 553—Educational Research. Four hours.
EED 662—Research in Elementary Education. Four hours.
EED 762—Seminar in Elementary Education. Four hours.
EED 798—Dissertation.

COURSE DESCRIPTION (EED)

GENERAL ELEMENTARY

EED G-403—**Kindergarten-Primary Education.** Four hours.

A study of the contributions which group living makes to the mental and physical health of young children, with emphasis upon child development research in curricular experiences and records. Designed to help teacher and parents understand the readiness program. Laboratory is included.

EED G-490—**Workshop in Aviation Education.** Four hours.

A course designed to familiarize teachers, principals, and superintendents with developments and trends in aviation and aerospace exploration and with the implications of those developments on our social, economic, and political life.

EED G-491—**The Reading Conference I, II.** One and one-half hours each.

An intensive program for five days during the Summer Quarter consisting of lectures, group discussions, and demonstration lessons.

EED 517—**Professional Relationship in Improved Elementary Programs.** Four hours.

A course designed to investigate behavioral factors of individuals and groups as they affect and improve elementary school environment. Concepts and techniques of elementary teacher behavior will be investigated in detail and in theory and practice.

EED 528—**Curriculum Problems in the Elementary School.** Four hours.

A course involving analysis of elements of the curriculum. Emphasis is placed upon the implications of social life and the nature of the individual for curriculum development. Evaluates various curriculum procedures in terms of the implications.

EED 570—**Practicum in Early Childhood Education.** Four hours.

A course of study concerned with the specific practices and research investigations relative to curriculum planning, administration, and supervision within early childhood laboratories. Observations and participation within the existing programs, including pupil contact and limited research activities, is required.

EED 572—**Practicum with Parents.** Four hours.

An action research course dealing with specific techniques of counseling, intrapersonal relationship within family organization, parent-teacher interview techniques, parent-teacher organizations, and in-service counseling with parents of kindergarten and primary age pupils.

EED 574—**Evaluation in Early Childhood Education.** Four hours.

An introduction to specific principles and practices relative to group evaluative procedures with emphasis placed upon the developmental, diagnostic, and projective techniques, case study and standardized testing procedures within the early childhood education range.

EPY 574—**Advanced Child Psychology.** Four hours.

A course dealing with the mental, motor, social, and emotional development of children of elementary school age. Stresses the application of developmental psychology to education and guidance. Considers child growth as progressive development.

EED 576—**Seminar in Early Childhood Education.** Four hours.

A study of general practice, theory, and research in the related fields of Early Childhood Education. The student will be involved with individuals and/or small groups of children in a practicum setting. The relatedness of the psychological, sociological, physiological and intellectual patterns and their impact upon child development will receive major attention. A scholarly report considering these factors mentioned above will be required.

EED 578—**Art and Child Development.** Four hours.

A consideration of art as an integral part of child growth as intimately related to the social curriculum of the elementary school. Opportunity provided for creative aspects of learning and for evaluation of experiences.

EED 580—**Research in Child Development.** Four hours.

Research in child behavior, child psychology, maturity factors, laboratory-experimental studies, physiologic development, experimental methods of perception in children, interpersonal relationship, behavior among children, or family life variables.

EED 582—**History and Philosophy of Early Childhood Education.** Four hours.

A course of study concerned with in-depth investigations of Pestalozzi, Froebel, Montessori, and others representing schools of thought influencing the curriculum and program of young children. Investigations into the social and cultural changes which have influenced and modified early childhood programs will be treated in detail.

EED 592—**Special Problems I, II, III.** One hour each.

A problem study to be approved by the appropriate department head to develop knowledge and facility in a field of interest for the student which requires preparation of a scholarly paper under the supervision of a graduate professor.

EED 594—**Field Problems in Production I, II.** Four hours.

Opportunity to study local school problems of curriculum revision, course of study construction, evaluation of methods, building projects, community surveys, testing programs, and record systems under careful supervision of a graduate professor.

The project must be approved by the departmental chairman upon the recommendation of the student's major professor.

EED 597—**Independent Study and Research.** Hours arranged.

Not to be counted as credit toward a degree.

Students who are not in residence but who are actively working on a thesis and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

EED 598—**Thesis.** Six hours.

EED 662—**Research in Elementary Education.** Four hours.

Prerequisite: Advanced graduate status or permission of Chairman of Department.

A course designed to familiarize the student with the elements and methods of research, with the representative types of research, and with major contributions of research to the field of elementary education.

EED 697—**Independent Study and Research.** Hours arranged.

Not to be counted as credit toward a degree.

Students who are not in residence but who are actively working on a research problem and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

EED 698—**Research Problem.** Four hours.

Selection of practical educational problems for solution by candidates for education specialist certificate, using research and professional knowledge. A scholarly report is required.

EED 762—**Seminar in Elementary Education.** Four hours.

Prerequisite: Advanced graduate status or permission of Chairman of Department.

An intensive examination into the issues relative to elementary school program. This course will be interdisciplinary in nature and will focus upon contributions of research, philosophy, history, sociology, and educational psychology as it applies to the resolution of major issues in elementary education.

EED 791—**Research in Elementary Education.** One to twelve hours.

Prerequisite: Approval of the major professor.

EED 792—**Special Problems.** Four hours.

EED 797—**Independent Study and Research.** Hours arranged.

Not to be counted as credit toward a degree.

Students who are not in residence but who are actively working on a dissertation and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

EED 798—**Dissertation.**

DEPARTMENT OF ELEMENTARY EDUCATION

PROGRAMS AND COURSE SEQUENCE IN READING

The following programs of graduate studies in reading are offered through the Department of Elementary Education. General admission procedures and requirements for admission to the Department of Elementary Education also apply to candidates involved in program of study in reading.

Specific information relative to programs in reading may be secured from the Developmental Reading Center. Interdisciplinary programs of study may be arranged for students not enrolled in Elementary Education but who desire training in the teaching of reading.

Master of Science in Reading:

The following sequence of courses leading to the Master of Science degree is designed to provide a thorough background in the teaching of reading. Its purpose is to prepare the individual to assume positions in the public schools at the elementary or secondary level where specific knowledge of the teaching of reading is required or beneficial.

FED 501—Research: Its Introduction and Methodology.
FED 504—Foundations in American Education.
EPY 510—Educational Psychology.
EED 506—Psychology of Reading.
EED 554—Reading in the Secondary School.
EED 515—Diagnosis and Remediation of Reading Disability for the Reading Clinician or Specialist.
EED 521—Practicum in Remedial Reading
or
EED 533—Practicum in Diagnosis and Remediation of Reading Disability for the Classroom Teacher.
EED 596 I—Research in Reading.
SHS G-402—Language Development.
AED 526—Supervision of Instruction.
EED 598—Thesis or Electives. (Optional. Credit deferred until thesis is completed.) Six hours.

Total—46 hours

Free Electives—6 hours on non-thesis program

Suggested Electives:

GED 582—Use and Interpretation of Tests in Guidance.
EPY 574—Advanced Child Psychology.
PSY 588—Individual Psychological Testing: Wechsler Scales.
PSY 587—Individual Psychological Testing: Stanford-Binet.
SHS—G-431—Language Disorders.

Specialist Certificate in Elementary Education with Emphasis in Reading:

Course work for the specialist program includes the requirements outlined under the master's program in reading and also requires the candidate to declare an area of depth in a related area. Specific course sequence is individualized subject to the approval of the graduate adviser, departmental chairman, and appropriate deans.

Doctor of Education Degree in Elementary Education with Emphasis in Reading:

The Doctor of Education degree in elementary education with emphasis in reading is designed to provide an in-depth study of the field of reading as a part of the program of studies leading to the doctoral degree in elementary education. The phases pursuant to the doctorate in elementary education apply to this program.

COURSE DESCRIPTIONS

READING

EED G-412—**Diagnosis and Remediation of Reading Disability for the Classroom Teacher.** Four hours.

EED G-491—**The Reading Conference I, II.** One and one-half hours each.

An intensive program for five days during the Summer Quarter consisting of lectures, group discussions, and demonstration lessons.

EED 505—**Modern Concepts in Reading Skill Development.** Four hours.

This course makes an intensive study of the skills required in reading, up-to-date methods and materials required to teach these skills, and classroom techniques for evaluating proficiency in the development of these skills. This course provides an understanding in depth of reading for the experienced teacher and in-service training groups.

EED 506—**Psychology of Reading.** Four hours.

This course deals with (1) the nature of reading, (2) reading as a perceptual process, (3) learning principles and the reading process, (4) motivation and reading interest, (5) personality factors in the reading process, and (6) readability.

EED 513—**Advanced Diagnosis and Remediation of Reading Disability for the Classroom Teacher.** Four hours.

Prerequisites: EED 505 and 506.

A course dealing with the need for corrective and remedial reading in the school; the nature and causes of reading disability; procedure in making a classroom diagnosis; disability analysis interpretation; classroom remedial treatment of reading difficulty to include techniques and materials.

EED 515—**Diagnosis and Remediation of Reading Disability for the Reading Clinician or Reading Specialist.** Four hours.

Prerequisites: EED 505 and EED 506.

This course deals through lecture, discussion, demonstration, and observation: (1) the role of the reading clinician or specialist in current society; (2) reading clinic organization; (3) the nature and causes of reading disability; (4) procedure and tools used in making a diagnosis in the clinical setting; (5) disability and analysis interpretation; (6) remedial instruction in the clinic of reading disabilty including techniques and materials; (7) a limited requirement to be met in testing and teaching observation in clinic.

EED 521—**Practicum in Remedial Reading.** Four hours.

Prerequisite: EED 515.

Methods and Materials. The course provides an opportunity to learn methods and materials useful in remedial instruction through laboratory experience with children with remedial reading difficulties. Course meets twice a week for discussion with four laboratory periods arranged.

EED 529—**Reading in the Elementary School.** Four hours.

A course providing for extensive study of recent trends in materials and methods in reading in the elementary school including significant research studies which relate to these.

EED 533—**Practicum in Diagnosis and Remediation of Reading Disability for the Classroom Teacher.** Four hours.

Prerequisite: EED 515.

A course in which the student works with small groups of corrective reading cases, diagnosing needs, and teaching corrective lessons.

EED 536—**Practicum in Reading Diagnosis.** Four hours.

Prerequisites: EED 515 and PSY 588.

This course is to develop in the student the ability to make a complete reading diagnosis, interpret the results, make specific recommendations with regard to the diagnosis, and to be able to conduct a pre- and post-diagnosis parent interview.

EED 537—**Practicum in Remedial Reading Instruction I.**

Prerequisite: EED 521.

This graduate course is to provide the student experience in interpretation of test results of reading disability cases, the selection of remedial materials, and teaching techniques which would be appropriate for different disabilities. The student will teach a remedial case and have experience writing case progress reports.

EED 537—**Practicum in Remedial Reading Instruction II.**

Prerequisite: EED 521.

This graduate course is an extension of the first practicum. The doctoral level student will need this additional experience.

AED 542—**Supervision and Curriculum in Reading.** Four hours.

A study of organizational patterns of reading curricula and methods of improvement of reading instruction in schools from the point of view of the reading supervisor or consultant and the school administrator.

SED 554—**Reading in the Secondary School: Current Materials and Methods.** Four hours.

Prerequisite: EED 506.

A course providing for extensive study of recent trends in materials and methods in reading in secondary school including significant research studies which relate to these.

EED 596 I—**Research in Reading.** Four hours.

This course is to provide the student with an intensive review of research in reading. The student will develop a prospectus for a research project in reading.

EED 596 II—**Research in Reading.** Four hours.

In this course the student in the specialist program carries out the research project which he formulated in EED 596 I. The project will be written under the guidance of his major professor and will be presented as his field problem which is a requirement for the specialist certificate.

EED 604—**Reading for Different Cultural Groups.** Four hours.

This course will review the current research relating to the culturally different. Implications of these research findings will be drawn to the field of reading, relating specifically the creation of appropriate materials and adapting methodology to these groups.

EED 620—**Internship in Reading: Public School, Clinic, or Research.** Eight hours.

This is an instructional internship to prepare the individual to be able to assume a position in a public school as director or supervisor of reading instruction, or a position in a reading clinic. Since this is the capstone of the specialist program, an effort will be made to locate the student in the system where he will accept a position upon graduation. For those students going into research, an exchange program will also be set up with reading clinics and research groups in other states. In all three instances the student will work full time at his selected position, taking no other course work. There will be continuous evaluation of the student's progress during the internship between the University and the accepting agency.

EED 685—**Seminar in Reading Instruction.** Four hours.

Provides an intensive study in depth of facets of reading instruction.

DEPARTMENT OF GUIDANCE (GED)

Herman Boroughs, Chairman

Alcorn C. Allen Gutsch Weatherford

The master's degree, the specialist certificate, and the doctoral degree programs in guidance and student personnel services are offered and are designed to prepare candidates in three areas of personnel work: (1) public schools, (2) college and junior colleges; and (3) community agencies.

The individual student will be guided by the chairman of his advisory committee in his choice of courses. The field work, supervised practice counseling, and special problems courses offer flexibility in preparation as well as in experiences appropriate to the individual student's needs.

CURRICULUM PRESCRIPTIONS:

For the Master of Education degree in School Counseling: The course pattern, which is designed to provide learning experiences in the area of public school guidance and counseling, will meet the professional and academic requirements for Class AA certification for secondary school counselors in Mississippi. A teaching certificate based upon a baccalaureate degree is a prerequisite for this program.

FED 501—Research: Its Introduction and Methodology. Four hours.
FED 504—Foundations in American Education. Four hours.
GED 506—Fundamentals of Guidance. Four hours.
GED 522—Organization and Administration of Pupil Guidance. Four hours.
GED 571—The Information Services in Guidance. Four hours.
GED 581—Methods and Techniques of Counseling. Four hours.

GED 582—Use and Interpretation of Tests in Guidance. Four hours.
GED 587—Analysis of the Individual. Four hours.
GED 593 I, II, III—Supervised Practice Counseling. Two, four, or six hours.
and/or
GED 600—Laboratory. Four hours.

TOTAL—34 or 38 hours.

Specific courses highly recommended—8 to 12 hours.

GED 596 I, II, III—Field Work in Guidance. Two, four, or six hours.
PSY 587—Individual Psychological Testing: Stanford-Binet. Four hours.
PSY 588—Individual Psychological Testing: Wechsler-Bellevue. Four hours.
EPY 510—Advanced Educational Psychology. Four hours.
GED 594—Advanced Guidance Research Seminar. Four hours.
GED 592 I, II, III—Special Problems. One, two, or three hours.
SED 507—Basic Course in Curriculum Development. Four hours.
SPE G-486—Psychology and Education of the Exceptional Child. Four hours.
GED 684—Group Guidance. Four hours.
EPY 575—Advanced Adolescent Psychology. Four hours.
PSY G-480—Psychology of Personality. Four hours.
GED 516—Vocational Guidance and Adjustment of Exceptional Children. Four hours.
GED 505—Guidance in the Elementary School. Four hours.

Other electives may be substituted with the approval of the adviser.

TOTAL—46 hours.

For the Master of Science degree in College Counseling: The course pattern is designed for the broad field of student personnel services to meet the needs of college counselors, deans of men and women, directors of orientation, directors of housing, directors of student organizations, religious counselors, directors of placement, and registrars.

FED 501—Research: Its Introduction and Methodology. Four hours.
FED 504—Foundations in American Education. Four hours.
GED 506—Fundamentals of Guidance. Four hours.
EPY 510—Advanced Educational Psychology. Four hours.
GED 581—Methods and Techniques of Counseling. Four hours.
GED 593 I, II, III—Supervised Practice Counseling, and/or
GED 596 I, II, III—Field Work in Guidance. Two, four, or six hours.
and/or
GED 600—Laboratory. Four hours.
GED 582—Use and Interpretation of Tests in Guidance. Four hours.
GED 588—Student Personnel Work in Higher Education. Four hours.

TOTAL—30 or 34 hours.

ELECTIVES—12 or 16 hours. (Related to professional needs.)

Electives highly recommended

GED 586—Seminar in Student Personnel Problems. Four hours.
GED 684—Group Guidance. Two hours.
GED 592 I, II, III—Special Problems. One, two, or three hours.
PSY G-439—Social Psychology. Four hours.
GED 571—Occupational Services in Guidance. Four hours.

GED 522—Organization and Administration of Pupil Guidance. Four hours.
PSY G-480—Psychology of Personality. Four hours.
PSY G-491—Abnormal Psychology. Four hours.
EPY 575—Advanced Adolescent Psychology. Four hours.
M&FL 550—Early Marriage Adjustments. Four hours.

For the Master of Science degree in Community Counseling: The course pattern, which is purposely broad and flexible, is designed to prepare individuals to serve in community agencies in counseling and personnel functions: for example, in community health, recreation, family and social welfare, religious agencies, and business.

SOC G-485—Methods of Social Research. Four hours.
or PSY 450—Introduction to Statistics. Four hours.
FED 504—Foundations in American Education. Four hours.
GED 506—Fundamentals of Guidance. Four hours.
GED 582—Use and Interpretation of Tests in Guidance. Four hours.
GED 596 I, II, III—Field Work in Guidance. Two, four, or six hours.
and/or
GED 593 I, II, III—Supervised Practice Counseling. Two, four, or six hours.
and/or
GED 600—Laboratory. Four hours.
GED 684—Group Guidance. Four hours.
PSY G-445—Social Psychology. Four hours.

TOTAL—24 or 28 hours.

ELECTIVES—18 or 22 hours. (Related to professional needs.)

The student will elect, with the approval of the chairman of his advisory committee, from a large number of appropriate graduate courses those which will meet his professional needs. Those who plan to counsel in connection with health and recreation programs will elect heavily from physical education and recreation. Family counselors will take courses from sociology and home economics. Those who plan to work with industry will choose courses in business administration and psychology. Candidates who plan to pursue further graduate study in counseling, or who plan to carry primary counseling responsibility, will elect from psychology.

For the Specialist Certificate in Guidance: There is purposely no set curriculum for the Specialist Certificate in Guidance. The advanced graduate student will be guided in his choice of courses by his adviser and the Chairman of the Department.

For the Doctoral Program: The Doctor of Education and the Doctor of Philosophy degrees are offered. General requirements include approximately fifty (50) quarter hours work in guidance as a major requirement and approximately thirty (30) quarter hours work in a chosen minor area. Electives to complete a minimum of 118 quarter hours excluding languages, dissertation, and statistics will complete the academic requirements. Each student will be worked with individually; careful consideration will be given to his background and needs in moving toward his chosen professional goal.

COURSE DESCRIPTIONS (GED)

505—**Guidance in the Elementary School.** Four hours.

A survey of guidance theories and practices as they relate to elementary education. Designed to give elementary teachers, principals, and counselors a fundamental understanding of the role of guidance in the elementary school.

506—**Fundamentals of Guidance.** Four hours.

A survey of vocational and educational guidance services designed to give teachers, administrators, and beginning counselors a fundamental understanding of the role of guidance in school programs.

516—**Vocational Guidance and Adjustment of Exceptional Children.** Four hours.

A study of guidance services and adjustment processes as they apply to atypical children including mentally retarded, physically handicapped, partially handicapped, partially sighted, partially hearing, etc., as well as early recognition and direction of gifted children.

522—**Organization and Administration of Pupil Guidance.** Four hours.

Prerequisite: GED 506.

The course stresses administrative relationships in instituting and maintaining a program of guidance services, with a study of principles and techniques for formation and evaluation of a complete guidance program.

571—**The Information Service in Guidance.** Four hours.

Prerequisite: GED 506.

A survey of practices in guidance programs which give teachers, administrators, and counselors knowledges and skills in setting up and maintaining an occupational information file and in making the materials available to students.

581—**Methods and Techniques of Counseling.** Four hours.

Prerequisite: GED 506.

A course designed to acquaint the guidance worker with the basic fundamentals of counseling and interviewing the individual. Attention is given to both old and new methods and techniques used in counseling.

582—**Use and Interpretation of Tests in Guidance.** Four hours.

Prerequisite: GED 506.

A course designed to provide the counselor with means of securing, recording, and using data concerning individuals and groups. Emphasis is given to practical experience in using tests, inventories, and other devices for measurements.

586—**Seminar in Student Personnel Problems.** Four hours.

Discussion of the problems of student deans, residence hall directors, counselors, and religious directors. Special attention is given to the orientation of new students, dormitories, organization, and other phases of student personnel programs.

587—**Analysis of the Individual.** Four hours.

Prerequisite: GED 506.

A study of methods and techniques used by teachers and guidance workers in helping individuals evaluate themselves, with consideration of collecting, assembling and using information. Emphasis is on subjective techniques.

588—**Student Personnel Work in Higher Education.** Four hours.

This course is designed to give students interested in entering personnel work at the college level a knowledge of the scope of personnel work, including those services basic to campus life, services for student growth, and services for special student groups. The professional nature of the personnel worker is emphasized.

592—**Special Problems I, II, III.** One hour each.

A problem study to be approved by the departmental chairman to develop knowledge and facility in a field of interest of the student. Preparation of a scholarly paper is required.

593—**Supervised Practice Counseling I, II, III.** Two hours each.

Prerequisites: GED 581 or GED 585 and consent of instructor.

Assignment of hours and responsibilities arranged with each student. A supervised practicum in counseling giving the advanced student an opportunity for needed experience.

594—**Advanced Guidance Research Seminar.** Four hours.

An advanced course for students interested in individual and group research methods, materials, and procedures in the various guidance service areas.

596—**Field Work in Guidance I, II, III.** Two hours each.

Registration only by permission of instructor.

Assignment of hours and responsibilities will be arranged with each student.

A course designed to give guidance students the opportunity to obtain experience in agencies that provide guidance.

597—**Independent Study and Research.** Hours arranged.

Not to be counted as credit toward a degree.

Students who are not in residence but who are actively working on a thesis and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

598—**Thesis.** Six hours.

600 I, II—**Guidance and Counseling Laboratory.** Four to eight hours.

681—**Seminar in Systems of Counseling.** Four hours.

Prerequisite: Consent of instructor.

A course designed to explore both the theoretical and functional implication for interaction settings. Students shall explore in depth specific theories of counseling and the application of such theories to practice. Extensive use of video-tapes and other audio-visual materials will be made.

682—**Community Resources for Guidance.** Four hours.

Prerequisite: Consent of instructor.

A course designed to study the nature and development of agency resources within the community, along with their purposes and functions, such as vocational rehabilitation employment service, scouts, family counseling service, mental health centers, public welfare, and health agencies. Emphasis is on locating, understanding, and utilizing the services of the agencies in the exchange of information and for referral of counselees.

684—**Group Guidance.** Four hours.
A consideration of values of group activities, methods, and techniques in furnishing guidance services to the individual within groups. Democratic leadership methods guide students through attitudinal group sessions.

691—**Research in Guidance.** One to twelve hours.

697—**Independent Study and Research.** Hours arranged.
Not to be counted as credit toward a degree.
Students who are not in residence but who are actively working on a research problem and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

698—**Research Problems.** Four hours.

700 I, II.—**Internship in Student Personnel Services.** Four to eight hours.
Prerequisites: GED 588 and consent of instructor.

740—**Testing College Students.** Four hours.

750—**Readings in Student Personnel Work.** Four hours.

760—**Administration and Orientation of Student Personnel Services.** Four hours.

791—**Research in Guidance.** One to twelve hours.
Prerequisite: Approval of the major professor.

792—**Special Problems.** Four hours.

797—**Independent Study and Research.** Hours arranged.
Not to be counted as credit toward a degree.
Students who are not in residence but who are actively working on a dissertation and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

798—**Dissertation.**

DEPARTMENT OF HEALTH, PHYSICAL EDUCATION, AND RECREATION

C. E. McCarver, Chairman
Babin Martin Milam Nesbitt Slay Stafford
Switzer Townley Yarrow

Prescribed curricula for the master's degree programs offered in Health, Physical Education, and Recreation are outlined below:

For The Master of Education Degree in Health and Physical Education:

Prerequisite: An undergraduate major or minor in health and/or physical education of thirty (30) quarter hours or the equivalent.

FED 501—Research: Its Introduction and Methodology. Four hours.
FED 504—Foundations in American Education. Four hours.
FED 507—Basic Course in Curriculum Development. Four hours.
EPY 510—Advanced Educational Psychology. Four hours.
(Select 12 hours from the above.)
PE 540—Problems of Administration in Health, Physical Education, and Recreation. Four hours.
HTH 540—Marriage and Family Life. Four hours.
PE 544—Foundations and Trends in Health and Physical Education. Four hours.
PE 598—Thesis. Six hours. Credit deferred until thesis is completed.*
HTH 546—School Health Education. Four hours.
REC 592—Problems in Recreation. Four hours.
(Elect 28 hours from the above.)
*Required only of students writing thesis.
Sufficient electives to equal a minimum of forty-six (46) hours.

The graduate student within the field of health and physical education is expected to be proficient in administration, curriculum, health education, evaluation, philosophy, scientific foundations, and recreation. It is anticipated that he will recognize any deficiencies and correct them by his course selection.

For the Master of Science Degree in Recreation:

REC 551—Gerontology and Recreation. Four hours.
REC 552—Foundations, Trends, and Philosophies of Recreation. Four hours.
REC 553—Administration and Supervision in Recreation. Four hours.
REC 554—Evaluation in Recreation. Four hours.
REC 555—Outdoor Education and Camping. Four hours.
REC 592—Problems in Recreation. Four hours.
REC 598—Thesis. Six hours. Credit deferred until thesis is completed.

EDUCATION—Sixteen (16) hours selected with approval of major professor.

TOTAL—46 or 40 hours.

Free Electives—0 or 6 hours.

The graduate student within the field of recreation is expected to be proficient in administration, philosophy, evaluation, programs, health education, and physical education.

For the Doctoral Degrees:

The following courses are recommended:

HTH 540—Marriage and Family Life. Four hours.
HTH 660—Community Organization for Health Education. Four hours.
PE 550—Organization and Administration for Intramural and Extramural Activities. Four hours.
PE 594—Seminar in Health and Physical Education. Four hours.
PE 750—Readings in Physical Education. Four hours.
PE 760—Physiological Effects of Motor Activity. Four hours.
PE 570—Facilities and Equipment in Health, Physical Education, and Recreation. Four hours.

Additional courses will be determined after consultation with the student's adviser.

COURSE DESCRIPTIONS

HEALTH (HTH)

G-437—**Driver Education.** Four hours.

Driver education provides an opportunity for public school teachers to obtain information on such items as program of instruction, use of training cars, delegation of authority, legal responsibilities, and qualifications of teachers.

G-452—**Physiology of Exercise.** Four hours.

A study of the physiological changes which occur in the body during muscular activity.

G-453—**Methods of Driver and Traffic Safety Education.** Four hours.

Prerequisite: G-437.

Organization and administration of the driver education program, including scheduling, financing, and developing good public relations, will be primary areas of study.

G-482—**Kinesiology.** Four hours.

Prerequisites: BIO 101, 102, 103, and 228.

Analysis of movement based on a knowledge of anatomy and physiology as applied to the function of muscles in body mechanics.

G-484—**Evaluation in Health and Physical Education.** Four hours.

Open to qualified seniors and graduates.

Administration and interpretation of tests in health, physical fitness, and sports' skills.

540—**Marriage and Family Life.** Four hours.

This course is designed to help students who are interested in programs and materials for marriage and family life; social adjustment problems related to high school and college; special problems of counseling with these groups; and sources and methods of research.

546—**School Health Education.** Four hours.

Health service, plant and equipment, meeting community needs, utilizing community resources, health instruction.

550—**Safety Education.** Four hours.

A study of the general program of safety education in public schools, with special reference to the selection and organization of materials, including the methods and techniques of instruction; visual aids, safety projects, special programs, and the utilization of the agencies outside the school.

592—**Special Problems I, II, III.** One to three hours.

660—**Community Organization for Health Education.** Four hours.

Study of the philosophies of the community and the organizations that deal with health, with emphasis on group work techniques and their use in organizing the community for work in health education; current research in community organizations, and examination of programs of community health agencies.

PHYSICAL EDUCATION (PE)

G-401—**Preventive and Corrective Physical Education.** Four hours.

Recognition of and corrective exercises for functional abnormalties.

G-408—**Techniques of Teaching Rhythms.** Two hours.

Practical experiences in group instruction in various areas of dance.

540—**Problems of Administration in Health and Physical Education.** Four hours.

Consideration of problems faced by administrators of health, physical education, and recreation programs, including such things as staff selection, financial problems, teacher-student ratio, etc.

542—**Problems of Curriculum in Health and Physical Education.** Four hours.

Fundamental principles and bases of curriculum construction, analysis of activity for teaching purposes and program planning.

544—**Foundations and Trends in Health and Physical Education.** Four hours.

Scientific bases, history, principles, curricula, and professional preparation in health and physical education.

550—**Organization and Administration of Intramural and Extramural Activities.** Four hours.

Theory and practices in the organization and administration of intramural-extramural activities as they relate to finances, facilities, equipment, programming activities, and personnel.

570—**Facilities and Equipment in Health, Physical Education, and Recreation.** Four hours.

Planning facilities for Health, Physical Education, and Recreation with special consideration given to recommendations of the Athletic Institute, College Physical Education Association, and the National Recreation Association.

594—**Seminar in Health and Physical Education.** Two hours,

Discovery and recognition of problems, evaluation of problems and procedures, types and techniques of research.

597—**Independent Study and Research.** Hours arranged.

Not to be counted as credit toward a degree.

Students who are not in residence but who are actively working on a thesis and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

598—**Thesis.** Six hours. Credit deferred until thesis is completed.

750—**Readings in Physical Education.** Four hours.

Extensive reading and discussion of works of men whose writings have had and will have strong influence on physical education programs in the schools and colleges of the United States.

760, 761, 762—**Physiological Effects of Motor Activity I, II, III.** Four hours each.

A graduate course that allows the student to reach an understanding of various physiological effects of activity and to enable him to pursue further any particular interest in this area.

791—**Research in Health and/or Physical Education.** One to twelve hours.

Prerequisite: Approval of the major professor.

792—**Special Problems.** Four hours.

796—**Problems in Health and/or Physical Education I, II, III.** Two hours each.

Research in special physiological problems.

797—**Independent Study and Research.** Hours arranged.

Not to be counted as credit toward a degree.

Students who are not in residence but who are actively working on a dissertation and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

798—**Dissertation.**

RECREATION (REC)

551—**Gerontology and Recreation.** Four hours.

This course deals with the study of the aging process and recreational services as a technique which may enable the individual to achieve recog-

nition and status within his own community. The emphasis is placed upon the factors that promote intellectual, emotional, spiritual, and social maturity in older people.

552—**Foundations, Trends, and Philosophies of Recreation.** Four hours.

This course deals with the establishment of a discipline for the field of recreational service. Course content is concerned with concepts that are traceable to early Greek philosophy, Renaissance explorations, enlightenment, humanism, and contemporary philosophies of the American culture. The course presents a conceptualization of recreation, its foundation, philosophies, trends, and place in the American culture.

553—**Administration and Supervision in Recreation.** Four hours.

This course deals with the collected knowledge concerning the field of public administration, its principles, techniques and practices, particularly as it pertains to recreational agencies which provide unique services to the public at large; and more generally to the supervisory process and administrative leadership in recreational agencies.

554—**Evaluation in Recreation.** Four hours.

This course contains such vital procedures as: the quantitative and qualitative gathering of information about the recreational program; the creation of standards and the most effective means of comparison with known standards in the recreational process; the use of research techniques to discover the needs of people, to appraise existing facilities, to gauge public sentiment regarding program, to discern departmental development.

555—**Outdoor Education and Camping.** Four hours.

This course contains phases of outdoor education concerning conscious recognition and identification of natural phenomena which includes: (1) an introduction to the elements and philosophy of outdoor education as it is related to recreation; (2) the integration of the arts and sciences in outdoor education; (3) fundamentals of outdoor living or camping; and (4) methods of programming in an outdoor setting.

556—**Organization and Administration in Hospital Recreation Service.** Four hours.

This specialized professional course deals with the organization and administration of hospital services. It provides needed information of types of diseases, disabilities, and other infirmities to be encountered in various types of hospitals, and medical terminology utilized by the professional medical and technical staff in the hospital environment. Diseases that hospitalize people are studied with the aim of providing recreational experiences for the hospitalized person.

557—**Methods, Observation, and Participation in Hospital Recreational Service.** Four hours.

This course is designed to help the student understand the need for varying types of activity in relation to the disease or disability of the patient.

592—**Problems in Recreation.** Four hours.

Special attention to problems in recreation, including small town recreation, the school and recreation, coordinating community recreation services, field trips, public relations, program planning for given situations, and survey for recreational needs.

594—**Field Problems.** Four hours.

597—**Independent Study and Research.** Hours arranged.

Not to be counted as credit toward a degree.

Students who are not in residence but who are actively working on a thesis and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

598—**Thesis.** Six hours.

DEPARTMENT OF INDUSTRIAL ARTS (IA)

Zed H. Burns, Chairman
Hunter, Crowder

The Master of Science degree as a subject-matter degree is offered with the following requirements:

a. Thesis (Optional, to be determined by the student and his major professor).

b. The student will select from the courses listed below in industrial arts a minimum of thirty (30) quarter hours of work. He will also accomplish a minimum of sixteen (16) quarter hours of graduate work in a minor field. Suggested minor fields include the following: psychology, education, psychology of reading, counseling and guidance, economics, and mathematics.

COURSE DESCRIPTIONS (IA)

G-400—**Planning and Equipping the School Shop.** Five hours.

Planning the lay-out of rooms and other building facilities. Purchase and arrangement of equipment. Selection of suitable equipment for special conditions. The cost of equipment, supplies, and maintenance.

G-401—**Shop Care and Management.** Five hours.

A study of machine placement; student movement; arrangement of safety zones; upkeep and repair of tools; tool storage and distribution; storage of materials; assembly areas; general appearance of the shop.

502—**Foundations and Principles of Industrial Arts.** Four hours.

A basic course of the underlying philosophy and principles of industrial art education. Objectives and relations to allied fields. Research and individual reports required.

503—**Establishing the Industrial Arts Program.** Four hours.

A detailed consideration of the individual school program in industrial arts, its organization, physical and educational requirements, and coordination with other educational requirements. Specific problems studied and reported.

504—**Shop and Small Plant Design.** Four hours.

Fundamental problems in design of work space. Working drawings and reports required.

505—**History of Industrial Education.** Four hours.

A study of leaders, movements, and agencies in the development of industrial education. A critical consideration of economic and social factors in the development of industrial education in the United States is made.

506—**Philosophy of Industrial Arts Education.** Four hours.

A study and evaluation of the various viewpoints of the leading philosophers in the field.

507—**Organization of Instructional Materials in Industrial Arts.** Four hours.

A systematic examination of instructional materials and methods in industrial arts; research and reports required.

511—**Organization and Philosophy of Vocational Education.** Four hours.

The basic principles involved in the development and operation of vocational programs under state and federal vocational laws.

530—**Advanced Graphic Science.** Four hours.

A study of the methods and materials used in graphic science, advanced engineering and architectural drafting. Study of the literature and techniques in this field.

562—**Research Methods: Industrial Arts.** Four hours. Required.

A study of research methodology in industrial subjects with emphasis on design of experiments, research procedures, and statistical treatments.

592—**Special Problems I, II, III, IV.** One to four hours. **Required.**

Intensive study of a selected research area or problem in industrial arts.

594—**Seminar in Industrial Arts Problems I, II, III.** Two hours per quarter. May be taken three quarters.

597—**Independent Study and Research.** Hours arranged.

Not to be counted as credit toward a degree.

Students who are not in residence but who are actively working on a thesis and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

598—**Thesis.** Six hours. Credit deferred until thesis is completed.

DEPARTMENT OF LIBRARY SCIENCE (LS)

Warren Tracy, Chairman
de Grummond

The Department of Library Science participates in programs leading to the Master of Arts and Master of Science degrees. The general requirements for these degrees are outlined in Part IV of this **Bulletin.** As a prerequisite, a student must present the equivalent of the following undergraduate library science courses and meet the general requirements for admission to the University's graduate program: LS 301, LS 427, LS 428, LS 462, and LS 463. Students planning to use this program for a class AA certificate must meet the requirements for a class A certificate including LS 302, Books and Related Materials for Children, and LS 303, Books and Related Materials for Young People. Students will elect additional courses on the basis of their field of interest and the recommendations of their adviser.

For the Master of Arts degree, a minimum of forty-six (46) graduate hours is required, half of which must be in courses numbered above 500. In addition to thirty (30) hours of graduate courses in library science the student must complete sixteen (16) graduate hours in an academic minor approved by the Department, demonstrate proficiency in a modern language, and write a thesis. Appropriate graduate courses in research methods, principles of administration, statistics, etc., may be accepted as a part of the major when approved by the Department Chairman.

For the Master of Science degree, a minimum of forty-six (46) graduate hours is required, half of which must be in courses numbered above 500. In addition to thirty (30) hours of graduate courses in library science the student must complete sixteen (16) graduate hours in a minor approved by the Department. There is no foreign language requirement and the writing of a thesis is optional.

COURSE DESCRIPTIONS (LS)

510—**The Library in Society.** Four hours.

The library as a social institution, its background, and the forces that have shaped its development. Particular attention is given to the public library's relationship to social, governmental, and educational agencies, and the national and international role of the library.

520—**History of Books and Printing.** Four hours.

The evolution of the book from the earliest times to the present. An examination of the invention and spread of printing and its impact on the structure of society.

525—**Communication and Libraries.** Four hours.

Introduction to the audience, content, control, and channels of distribution of newspapers, radio, television, and motion pictures, with special attention to the relationship of the library to these media and its role as an agency of communication.

530—**Advanced Reference and Bibliography.** Four hours.

The study of major bibliographic and reference sources common to large research and reference collection. The importance of national and trade bibliographies for research and their use in library acquisitions.

535—**Advanced Classification and Cataloguing.** Four hours.

Prerequisites: LS 462 and 463.

Problems in classification and cataloguing, including serials, corporate entries, Library of Congress classification, and foreign rules of entry. The theory and practice of classification and subject headings.

540—**The College and University Library.** Four hours.

The development of the college and university library. Emphasis upon the role of the library in higher education, and upon problems of administration, personnel, financing, and buildings and equipment of academic libraries.

541—**The Public Library.** Four hours.

The development of the public library as an institution; organization, administration, community responsibilities; the library board, finance, and physical facilities.

542—**Special Libraries.** Four hours.

A study of the rise of the special library with a consideration of the objectives, administrative structure, and problems of special libraries. Provision of an opportunity for each student to investigate a particular field of special librarianship.

550—**Library Service to Children.** Four hours.

Consideration of library service to children in public libraries and school libraries with emphasis upon objectives, functions, problems of administration.

555—**Library Service to Young People.** Four hours.

The study of the objectives, functions, and problems of administration of library services provided by public libraries and high school libraries to young people.

591—**Research in Library Science.** One to twelve hours.

592—**Special Problems I, II, III.** One to three hours.

Prerequisite: LS 540, 541, or 542.

Intensive reading and investigation of a selected problem in the student's field of particular interest.

594—**Field Problems.** Four hours.

597—**Independent Study and Research.** Hours arranged.

Not to be counted as credit toward a degree.

Students who are not in residence but who are actively working on a thesis and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

598—**Thesis.** Six hours.

DEPARTMENT OF PSYCHOLOGY (PSY)

Ray S. Musgrave, Chairman

Baker Basham Christensen Finesmith Gough
Hildman Huckabee Lowe Lucy
Mehearg Norsworthy Rabin Sisemore Ward

The Master of Arts and Master of Science programs in psychology are planned primarily to provide a foundation for advanced graduate work in psychology for students who intend to make psychology their profession, with training to the doctoral level. Students who successfully complete master's work may also qualify for some positions in schools, in state institutions and hospitals, in clinics, in industry, or with government agencies.

Students desiring to do graduate work in physcology should have a foundation of course work in undergraduate courses in statistics and experimental psychology before undertaking their graduate work. Other courses in physiological measurement, history, and systems are highly desirable as prerequisites.

General requirements for master's degrees are listed in Part IV of this **Bulletin.** For the Master of Arts degree with a major in psychology, the student must meet the foreign language requirement. Proficiency in a foreign language is not required for the Master of Science degree in psychology. A thesis is required for both the Master of Science and the Master of Arts degrees.

Specific course requirements for all master's degree students include PSY 502, 562, and 563, 594, 598, and EPY 503.

Programs leading to the Doctor of Philosophy degree in psychology and the Doctor of Education degree in educational psychology are offered. The general requirements for doctoral degrees, listed in Part IV of this **Bulletin,** must be observed.

The sequence of courses leading to the Doctor of Philosophy degree in general-experimental psychology is planned to prepare students to be college and university teachers of psychology, or to become research workers in a variety of settings, including universities, governmental agencies, schools and hospitals, and industry.

The Doctor of Philosophy degree in clinical psychology is planned to prepare students for diagnostic, psycho-therapeutic and research work in a variety of settings which represent programs for community-wide prevention or amelioration of mental illness. The sequence of courses and other experiences provided for these students is outlined according to American Psychological Association standards. Included in the program are wide practicum and internship experiences both in the University Clinic, mental hospitals, and in community mental health and mental retardation settings.

The doctoral program in school psychology consists of a sequence of courses and other experiences which prepare students to provide a range of psychological services in schools and to function as research workers in education.

The Doctor of Education degree program in educational psychology with emphasis on mental retardation prepares students to work at the college and university level in the training of teachers of mentally retarded children, or to serve as supervisors or administrators of Special Education programs in schools, or to carry on research in the area of mental retardation and related problems.

Students contemplating graduate work in psychology are invited to communicate directly with the Department of Psychology.

COURSE DESCRIPTIONS

PSYCHOLOGY (PSY)

PSY G-445—**Social Psychology.** Four hours. Winter and Summer.

Prerequisite: PSY 201.

Psychological factors and influences in group behavior. Study of the individual in group situations, and the influence of the social environment on his behavior and development.

PSY G-449—**Industrial Psychology.** Four hours. Fall

Prerequisite: PSY 201.

Applications of psychological principles and methods to problems of industry emphasizing employee selection and placement, merit rating, accident reduction, training and measurement and improvement of employee morale.

PSY G-450—**Introduction to Statistics for the Behavorial Sciences.** Four hours. Every quarter.

Computation of measures of central tendency, variability, and correlation. Introduction to concepts of sampling techniques (t-tests, chi square, and analysis of variance).

PSY G-451—**Psychological Measurement.** Four hours. Winter and Summer.

Prerequisites: PSY 201 and 450.

Theory, problems, and techniques of psychological measurement. Group tests of ability, aptitude, interests, and personality are emphasized.

PSY G-466—**Experimental Psychology I.** Four hours. Fall.

Two hours of lecture and two 2-hour laboratory periods.

Prerequisites: PSY 201 and 450 and permission of the instructor.

Introduction to psychological laboratory work. Experiments include study of sensory and perceptual processes, emotion, and motivation.

PSY G-467—**Experimental Psychology II.** Four hours. Spring.

Two hours of lecture and two 2-hour laboratory periods.

Prerequisites: PSY 201 and 450 and permission of the instructor.

Introduction to psychological experimental techniques. Experiments include study of learning, memory, and thinking.

PSY G-480—**Psychology of Personality.** Four hours. Winter and Summer.

Prerequisites: PSY 201 and permission of the instructor.

A study of the factors involved in the development of the mature personality, with an analysis of the structure and dynamics of personality; critical review of methods of personality evaluation.

PSY G-481—**Abnormal Psychology.** Four hours. Fall and Spring.

Prerequisites: Good background in psychology and permission of the instructor.

Study of the major psychoses, the psychoneuroses, and mental deficiency. Primarily for psychology majors, premedical students, and students planning to enter law, social work, teaching, or the ministry.

PSY G-482—**Physiological Psychology.** Four hours. Winter and Summer.

Prerequisite: PSY 201.

Relationships between physiological functions, especially those of the nervous system, and psychological functions, including perception, emotion, motivation and learning. Primarily for psychology majors and pre-medical students.

PSY G-484—**History and Systems of Psychology.** Four hours. Fall and Winter.

Prerequisite: Permission of the instructor.

Review of the history of psychology and intensive study of current systems of psychology. Primarily for psychology majors as final senior course.

PSY 502—**Advanced Experimental Psychology.** Two hours. Fall and Winter. May be taken twice for credit.

Critical evaluation of and use of a variety of experimental techniques. Each student conducts an original study.

PSY 521—**Introduction to Projective Techniques.** Four hours. Winter.

Prerequisite: Permission of the instructor.

Introduction to the theory and use of various projective techniques in the study of personality.

PSY 522—**Personality.** Four hours. Spring.

Consideration of the major theories of personality, and research on the development and measurement of personality.

PSY 523—**Personnel and Industrial Psychology.** Four hours. Summer.

Intensive study of selected problems in industrial and personnel psychology.

PSY 524—**Physiological Psychology.** Four hours. Fall, alternate years.

Study of neurophysiological mechanisms in behavior, and related problems.

PSY 531—**Clinical Psychology.** Four hours. Fall.

Prerequisite: Permission of the instructor.

A survey course intended to acquaint the student with the field of clinical psychology. Emphasis on the use of clinical tests in personality diagnosis, a survey of psychotherapeutic techniques, and the research functions of the clinician.

PSY 536—**Pre-Practicum in Clinical Psychology I, II, III, IV, V, VI.** One to two hours per quarter with a maximum of twelve quarter hours. Every quarter.

Prerequisites: PSY 521, 587, or 588, and permission of the instructor.

Open only to psychology majors planning to enter the clinical field.

This course is designed to give actual clinical experiences to the beginning graduate student. Administration and interpretation of psychological tests as well as theraputic work with children and adults.

PSY 549—**Management Training and Development.** Four hours. Spring.

Study of the principles and procedures of the training and development of management, with emphasis on surveying training needs, applying the principles of learning and motivation in implementing training methods and techniques, and evaluating results of training and development.

PSY 562—**Research Methods: Descriptive Statistical Methods.** Four hours. Summer and Fall.

Prerequisite: PSY 450 or permission of instructor.

A brief review of measures of central tendency and variability with emphasis upon correlation theory, techniques of calculation and application of correlation methods to tests and research data. Introduction to sampling problems, Pearsons Product Moment Method of Correlation, biserial, point biserial correlations, tetrachoric correlation, contingency correlation, partial and multiple correlation.

PSY 563—**Research Methods: Significance Tests and Experimental Designs.** Four hours. Winter and alternate Summers.

Prerequisite: PSY 562 or permission of instructor.

A brief review of descriptive statistics and normal curve functions. Study of inference and sampling theory emphasizing parametric and nonparametric tests of significance: critical ratio, t-test, chi square, analysis of variance, problems of experimental design.

PSY 587—**Individual Psychological Testing: Stanford-Binet.** Four hours. Winter.

Prerequisite: Approval of departmental head or instructor.

To equip psychological workers to administer individual intelligence tests, and to interpret and apply the test results for diagnosing difficulties in scholastic and personality adjustment. Thorough analysis and intensive practice in mental testing is afforded. The Terman-Merrill Revision of the Stanford-Binet is employed.

PSY 588—**Individual Psychological Testing: Wechsler Scales.** Four hours. Spring and Summer.

Prerequisite: Approval of departmental head or instructor.

To equip the psychological worker to administer individual intelligence tests, and to interpret and apply the tests results for diagnosing difficulties in scholastic and personality adjustment. Thorough analysis and intensive practice in mental testing is afforded. The Wechsler Scales are employed.

PSY 591—**Research in Psychology.** One to twelve hours.

PSY 592—**Special Problems I, II, III.** One to three hours. On demand.

Intensive study of selected research area or field of professional psychology.

PSY 594—**Seminar in Problems in Contemporary Psychology I, II, and III.** Two hours each quarter for three quarters. Fall, Winter, Spring sequence.

PSY 597—**Independent Study and Research.** Four hours.

Not to be counted as credit toward a degree.

Students who are not in residence but who are actively working on a thesis and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

PSY 598—**Thesis. Six hours.** Credit deferred until thesis is completed.

PSY 602—**Experimental Design.** Four hours. Spring.

A study of the rationale underlying the selection of appropriate design for experimental work and the analysis and interpretation of results obtained through the use of such designs.

PSY 612—**Computer Simulation of Psychological Processes.** Four hours.

Prerequisite: Permission of the instructor.

A survey of basic concepts and current research in the area of "artificial intelligence" and computer models capable of "learning," being "conditioned," or solving discrimination and perceptual tasks in a manner similar to that displayed by animals and humans. The course assumes basic familiarity with computer programming methods as they apply to psychological research.

PSY 614—**Contemporary Theoretical Models in Psychology.** Four hours.

Prerequisite: Permission of the instructor.

An introduction to the role of model building in psychological research and contemporary models of basic behavioral phenomena. Emphasis will be on the adequacy of presently available theories and formal models of physiological processes underlying attention, perception, learning, motivation, sleep, and memory. Criteria for development of adequate formal theoretical models will be discussed.

PSY 620—**Philosophy of Science.** Four hours. Fall, alternate years.

A study of scientific methodology, theory construction, and system building in modern psychology.

PSY 640—**Comparative Psychology.** Four hours. Winter, alternate years.

An examination of methodology employed in animal research, and results of experimentation in the area of animal behavior.

PSY 650—**Emotions.** Four hours. Winter, alternate years.

A critical review of the nature and development of emotion, with emphasis upon current theoretical interpretations.

PSY 651—**Advanced Psychological Measurement.** Four hours. Spring.

Prerequisite: PSY 562 (PSY 451 is recommended).

An intensive study of the theory and techniques of psychological measurement. Reliability, validity, combining tests into a battery, test construction and scaling are emphasized.

PSY 660—**Perception.** Four hours. Winter, alternate years.

Prerequisite: Permission of the instructor.

The development and nature of human perception and its relation to adaptive behavior.

PSY 672—**Advanced Psychopathology.** Four hours. Spring.

Prerequisites: PSY 481, PSY 522, and permission of the instructor.

Intensive study of personality dynamics as related to aberrant behavior, with emphasis on current research.

PSY 701—**Factor Analysis.** Four hours. Summer.

Methods of multivariate analysis, emphasizing methods of factor analysis and cluster analysis.

PSY 710—**Personality Assessment.** Four hours. Fall.

Prerequisites: PSY 521 and permission of instructor.

A study of the theory and practice in the selection, administration, and interpretation of tests used in assessment of personality. It is recommended that this course be taken in conjunction with PSY 731 I.

PSY 731—**Clinical Psychology Practicum I, II, III.** Four hours each. Fall, Winter, and Spring.

Prerequisites: PSY 521, PSY 587, PSY 588, and permission of the instructor. Open only to psychology majors at the doctoral level.

An analysis of the interrelations between behavior disorders and psychodiagnostics with a view to the selection and application of appropriate therapeutic programs within a clinic setting.

PSY 740—**Systems of Psychotherapy.** Four hours. Winter.

Prerequisites: PSY 672 and permission of instructor.

An analysis of the theories and techniques of current systems of psychotherapy.

PSY 787—**Advanced Experimental Psychology I, II, III.** Four to twelve hours. Winter, alternate years.

For graduate students who wish to conduct research on individual problems not included in graduate thesis. Emphasis is placed upon background preparation, design and analysis of research data. Problems should be of publishable quality.

791—**Research in Psychology.** One to twelve hours.

Prerequisite: Approval of the major professor.

PSY 792—**Seminar in Case Studies.** Two hours. Spring.

Prerequisite: Permission of the instructor.

Presentation of actual case studies for evaluation and discussion by advanced graduate students.

797—**Independent Study and Research.** Hours arranged.

Not to be counted as credit toward a degree.

Students who are not in residence but who are actively working on a dissertation and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

PSY 798—**Dissertation.**

EDUCATIONAL PSYCHOLOGY (EPY)

EPY 503—**Learning and Motivation I.** Four hours. Spring.

Consideration of the basic concepts, problems, and research methodology in the studying of learning and motivation.

EPY 510—**Advanced Educational Psychology.** Four hours. Fall, Spring, Summer.

Designed primarily for the graduate student wishing to broaden his knowledge in the field of psychology of learning. Careful study of research and experimentation dealing with individual and group learning.

EPY 520—**Intelligence: Theories and Development.** Four hours. Winter.

Nature of intelligence, and its development; critical evaluation of methods of measurement; relation of intelligence to social efficiency.

EPY 530—**Case Studies in School Psychology Problems.** Two hours. Spring, alternate years.

A course designed to present the student with studies of clinical, school, and other psychological problems encountered by the school psychologist. Critical evaluation of the process and practice of writing and presenting case material.

EPY 540—**Interpretation of Psychological Tests for Exceptional Children.** Four hours. Spring and Summer.

Prerequisite: Permission of the instructor.

A study of the various psychological tests used in the appraisal and evaluation of exceptional children.

EPY 542—**Psychology of the Gifted Child.** Four hours. Fall, alternate years.

Prerequisite: Permission of the instructor.

Study of the characteristics and needs of gifted children and the various means employed by the schools to provide for these children.

EPY 574—**Advanced Child Psychology.** Four hours. Winter and Summer.

A course dealing with the mental, motor, social, and emotional development of children of elementary school age. Stresses the application of developmental psychology to education and guidance. Considers child growth as progressive development.

EPY 575—**Advanced Adolescent Psychology.** Four hours. Winter and Summer.

An advanced study of the adolescent and his needs in the home, school, and community. Includes a survey of the research studies and literature on the period of adolescence, and individual and group reports.

EPY 580—**Leadership.** Four hours. Winter.

Prerequisite: Permission of the instructor.

Study of the factors affecting leadership in a school or industrial setting; emphasis is placed on status and esteem as factors.

EPY 591—**Research in Educational Psychology.** One to twelve hours.

EPY 593—**Seminar in Psychological Services in Schools I, II, III.** Two hours each. Fall, Winter, Spring sequence.

Advanced general psychology with special emphasis on relationships of each topic to the areas of school psychology, education of the handicapped, etc.

EPY 597—**Independent Study and Research.** Hours arranged.

Not to be counted as credit toward a degree.

Students who are not in residence but who are actively working on a thesis and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

EPY 598—**Thesis.** Six hours. Credit deferred until thesis is completed.

EPY 603—**Learning and Motivation II.** Four hours. Winter, alternate years.

An intensive study of the role of contemporary theories of learning and motivation in current research.

EPY 610—**Group Dynamics.** Four hours. Spring.

Prerequisite: EPY 580 or permission of instructor.

A study of theory and practice in group development and group dynamics.

EPY 622—**Community Mental Health.** Four hours.

Prerequisite: Permission of the instructor.

Concepts and techniques of mental health consultation with emphasis on the psychologist's role in the field of mental health.

EPY 625—**Curriculum for the Mentally Retarded.** Four hours. Spring.

Study of different approaches to curriculum development, with emphasis on basic philosophy and goals of teaching the mentally retarded.

EPY 645—**Psychology of Mental Retardation.** Four hours. Fall.

Prerequisite: Permission of the instructor.

Study of personality development, problems of adjustment, and abnormal behavior of the mentally retarded. Consideration of psychological and medical treatment of the emotionally disturbed, mentally retarded individual.

EPY 670—**Seminar in Teaching of Psychology.** Two hours. Winter.

An analysis of the psycho-educational problems involved in the undergraduate and graduate teaching of psychology.

EPY 680—**Practicum in Teaching Psychology.** Four hours. On demand.

Supervised teaching of courses in psychology.

EPY 685—**Brain Damage and Behavior.** Four hours. Winter.

Prerequisite: Permission of the instructor.

The numerous causes of brain injury are studied and their effects on the mental and physical behavior of man are considered.

EPY 690—**Advanced Social Psychology.** Four hours. Winter, alternate years.

A study of theory, research, and practice related to group processes and their interaction with individual behavior.

EPY 696—**Practicum in School Psychology.** Four hours. On demand.

Provides an opportunity to perform the duties of the school psychologist under supervision. Group and individual testing, contact with school personnel, individual counseling, and community relations will be stressed.

791—**Research in Educational Psychology.** One to twelve hours.

Prerequisite: Approval of the major professor.

EPY 792—**Special Problems.** Four hours.

EPY 797—**Independent Study and Research.** Hours arranged.

Not to be counted as credit toward a degree.

Students who are not in residence but who are actively working on a dissertation and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

EPY 798—**Dissertation.**

SPECIAL EDUCATION (SPE)

The Master of Education degree in special education is administered by the Department of Psychology, and is interdepartmental. It provides a sequence of courses which prepare students for teaching positions in the area of special education, with major emphasis on working with the mentally retarded. A thesis is not required.

REQUIRED:

FED 501—**Research: Its Introduction and Methodology.** Four hours.
FED 504—**Foundations in American Education.** Four hours.
FED 507—**Basic Course in Curriculum Development.** Four hours.
EPY 510—**Advanced Educational Psychology.** Four hours.
EPY 520—**Intelligence: Theories and Development.** Four hours.
EPY 645—**Psychology of Mental Retardation.** Four hours.
SPE 500—**Seminar in Special Education.** Four hours.

CHOOSE FROM COURSES LISTED BELOW TO MAKE TOTAL OF 46 QUARTER HOURS:

PSY 587—**Individual Psychological Testing: Stanford-Binet.** Four hours.
PSY 588—**Individual Psychological Testing: Wechsler Scales.** Four hours.
GED 516—**Vocational Guidance and Adjustment of Exceptional Children.** Four hours.
EED 506—**Psychology of Reading.** Four hours.
EED 580—**Research in Child Development.** Four hours.
EPY 542—**Psychology of the Gifted Child.** Four hours.
EPY 574—**Advanced Child Psychology.** Four hours.
EPY 575—**Advanced Adolescent Psychology.** Four hours.
SPE G-470—**Curriculum Adaptations for Teaching Handicapped Youth.** Four hours.
SPE G-487—**Problems in Special Education.** Four hours.

The courses required for certification in Mississippi must be taken and completed before a graduate degree will be given.

Teachers who have not had SPE 450, 455, 460, 486 must take these in order to meet the certification requirements in Mississippi.

COURSE DESCRIPTIONS (SPE)

SPE G-450—**Psychology and Education of the Mentally Retarded.** Four hours. Summer, Fall, Spring.

A study of the social, emotional, physical, and intellectual characteristics of the mentally retarded; methods of diagnosis and differentiation; special class organization

SPE G-455—**Speech and Hearing Problems for the Classroom Teacher.** Four hours. Winter and Summer.

This course is designed to familiarize the public school classroom teacher and the education major with speech and hearing problems often found in the public school classroom.

Reading in special problems or individual research for students majoring in special education.

SPE G-460—**Methods and Materials for Teaching the Mentally Retarded.** Four hours. Winter and Summer.

A study of methods and materials most useful in teaching the mentally handicapped. Emphasizes the use of arts and crafts as instructional media. This course will replace the IA 319 —Handicrafts for Elementary Teachers.

SPE G-470—**Curriculum Adaptations for Teaching Handicapped Youth.** Four hours.

Examination of the educational needs of mentally, physically, and emotionally handicapped youth of secondary school age and methods of meeting these needs. Emphasizes the principles and procedures of the cooperative Special Education-Vocational Rehabilitation program.

SPE G-486—**The Psychology and Education of the Exceptional Child.** Four hours. Fall, Spring, Summer.

Considers the psychological and educational needs of children in the atypical groups; physically, visually, or auditorially handicapped; defective speech, mentally retarded, or socially and emotionally maladjusted, and the gifted.

SPE G-487—**Problems in Special Education.** Four hours. Fall and Summer.

Organization and administration at both state and local level of the education of the exceptional child.

SPE G-490—**Workshop in Special Education.** Four and one-half hours. Summer.

Workshop in selected areas of special education.

SPE 500—**Seminar in Special Education.** Four hours. Alternate Summers.

Considers recent research and its application to the various areas of special education.

SPE 591—**Research in Special Education.** One to twelve hours.

SPE 592—**Special Problems I, II.** Two hours each. Alternate Summers.

Examination of medical, sociological, biological, psychological, and institutional aspects of exceptional children.

SPE 594—**Field Problems.** Four hours.

SPE 597—**Independent Study and Research.** Hours arranged.

Not to be counted as credit toward a degree.

Students who are not in residence but who are actively working on a thesis and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

SPE 598—**Thesis.**

SPE 692—**Reading and Research in Special Education I, II, III, IV.** One hour each. On demand.

SPE 694—**Advanced Seminar in Special Education I, II.** Two hours each. On demand.

Problems of diagnosis, treatment, critically reviewing the literature, and designing and conducting research on exceptional children are considered.

SPE 696—**Field Problems in the Administration of Special Education.** One to six hours credit. On demand.

Students participate in the activities of an organization involved in administering or teaching special education. This may be at the state or local level, and the student gains supervised experience in an organized program.

SPE 735—**Advanced Study of Problems and Issues in Special Education.** Four hours. May be repeated for credit. On demand.

Study of special problems and issues such as philosophy, law, administration, implementation of programs, etc.

SPE 791—**Research in Special Education.** One to twelve hours.

Prerequisite: Approval of the major professor.

SPE 792—**Special Problems.** Four hours.

SPE 796—**Practicum in Case Work and Guidance of the Exceptional Child.** Two to eight hours. On demand.

Individual cases are tested by students and all available information is integrated for diagnostic and educational purposes.

SPE 797—**Independent Study and Research.** Hours arranged.

Not to be counted as credit toward a degree.

Students who are not in residence but who are actively working on a dissertation and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

SPE 798—**Dissertation.**

DEPARTMENT OF SCIENCE EDUCATION (SCE)

Ashley G. Morgan, Chairman

Brown Flowers Frazier Sonnier Swann

The Department of Science Education recognizing the increased emphasis on the art of science teaching and the additional opportunities for individuals with advanced training in these arts provides a program for the Master's and the Doctor of Education degrees in Science Education.

In addition to the general requirements and procedures pertaining to graduate degrees as outlined in Part III and IV of this **Bulletin**, the following requirements must be fulfilled:

Master's Degree

1. Completion of fifty-eight (58) or sixty (60) quarter hours of graduate work.
2. A minimum of twenty-four (24) quarter hours in a specific science—biology, chemistry, geology, or physics.
3. A minimum of eight (8) quarter hours in related sciences.
4. Demonstration of competence in the following Professional Education areas:
   (a) Psychology of learning
   (b) History and philosophy of education
   (c) Statistical methods and procedures in education
   (d) Research methods in education
   (e) Guidance and educational testing
   (f) Public school science curriculum
   (g) Problems in science teaching

Generally, the fulfillment of the above requirements will involve:

A. Twelve (12) to twenty (20) quarter hours in professional education.
B. Thirty-eight (38) to forty-eight (48) quarter hours in the sciences and science education.

Approximately one-third of the graduate work will be in professional education and two-thirds in the sciences. Students with sufficient background are not required to take additional courses in professional education, but will complete their programs in the sciences.

A thesis carrying six quarter hours is optional and would substitute for two courses in education. The total program with thesis requires fifty-eight (58) quarter hours graduate credit. The thesis may involve research in a particular science or research in science education.

Doctor of Education Degree

1. Completion of a minimum of seventy-two (72) quarter hours of graduate work above that accepted at the master's level.
2. A minimum of twenty-four (24) quarter hours in a specific science—biology, chemistry, earth science, or physics.
3. A minimum of eight (8) quarter hours in related science.
4. Competence in the areas of professional education as listed above.

Generally, the fulfillment of the above requirements will involve:

A. Twelve (12) to twenty-four (24) hours in professional education.
B. Thirty-two (32) or more hours in the sciences.
C. Twelve (12) or more hours in science education.

In all, two-thirds or more of the graduate work will be in the sciences and science education. In planning the overall program consideration is given to the student's background and his particular interests and goals.

Additional requirements include demonstrated proficiency in educational statistics and independent research. Research, culminating in a dissertation, may deal with a problem in the student's science speciality or a problem in science education.

In addition to an evaluation of the student's record, tests and examinations are used for diagnostic purposes in planning programs. The Graduate Record Examination verbal and quantitative scores and the National Teacher Examination commons and teaching area scores should be submitted with the application for advanced graduate study. During the first or second quarter of study additional tests are administered by the Department and the School of Education and Psychology.

COURSE DESCRIPTIONS (SCE)

SCE G-400—BSCS—**Biology for Secondary Teachers.** Four hours.

Prerequisite: Biology background or permission of the instructor.

A detailed critical examination of the subject matter, techniques, and methods for teaching biology in secondary schools as proposed by the Biological Sciences Curriculum Study. Designed to orient teachers in modern biology subject matter and special techniques by presenting background material and special laboratory exercises. Emphasis is placed on the laboratory as the source of information from which sound conclusions can be drawn.

SCE G-401—CHEM—**Chemistry for Secondary Teachers—Methods and Techniques.** Four hours.

Two hours lecture and four hours laboratory work per week.

Prerequisite: Chemistry background or permission of the instructor.

A course designed to familiarize chemistry teachers with the materials, methods, and techniques of teaching chemistry developed by the Chemical Education Material Study Committee. Unifying principles of chemistry are emphasized, with laboratory work providing the basis of development. Not allowable as credit toward degree requirements for chemistry majors.

SCE G-402—**PSSC Physics for Secondary Teachers-Methods and Techniques.** Four hours.

Two hours lecture and four hours laboratory work per week.

Prerequisite: Physics background or permission of the instructor.

A course designed to familiarize physics teachers with methods, materials, and techniques of teaching physics developed by the Physical Science Study Committee. Not allowable as credit toward degree requirements for physics majors.

SCE G-403—**ESCP Earth Science Methods and Materials for Teachers.** Four hours.

Six hours lecture-laboratory work per week.

Prerequisite: Earth Science background or permission of the instructor.

A course designed to familiarize teachers with the materials, methods, and techniques developed by the Earth Sciences Curriculum Project. Emphasis is placed on laboratory and field work for data collection, and principles of other sciences as they relate to the study of the earth.

SCE 500—**Science Curriculum in the Public Schools.** Four hours.

Prerequisite: Permission of the instructor.

Involves a critical examination of the research, its implications, and trends in science course content. Course will include the use of seminars, research problems, independent study, advanced courses, etc., in the secondary schools.

SCE 501—**Problems in Science Teaching.** Four hours.

Prerequisite: Permission of the instructor.

A study of problems related to curriculum, methodology, activities, professionalism—scientific and educational, and evaluation in science teaching. Involves the examination of recent research in these areas.

SCE 502—**Techniques of Demonstrating and Experimenting with Scientific Principles.** Four hours.

Prerequisite: Permission of the instructor.

A course designed especially for general science teachers, considering fundamental aspects of biology, chemistry, geology, and physics. Provides for examination of modern material, equipment, and apparatus, and the use of the material in demonstrating and experimenting with scientific ideas.

SCE 510—**Physics for Elementary School Teachers.** Four hours.
Prerequisites: 8 hours in physical science and 8 hours in biological science.
The physics course is designed principally for the purpose of providing teachers with a deeper knowledge of matter and energy and understanding of their relationships. The course is organized around principles and general ideas (and their developments) that can be directly applied to the elementary grade. Particular attention is given to quantitative processes pertaining to the understanding of the properties of matter and energy.

SCE 511—**Chemistry for Elementary School Teachers.** Four hours.
Prerequisites: 8 hours in physical science and 8 hours in biological science.
In keeping with the current trends in chemistry teaching, major emphasis in this chemistry course will be placed upon: (1) relating ideas and facts; (2) understanding widely applicable principles; (3) placing heavy reliance upon laboratory work; (4) striving toward closer continuity between subject matter and pedagogy; and (5) deriving the necessary operational and conceptional definitions necessary to think about chemical systems. There will be a shift of emphasis from descriptive chemistry toward chemical principles to represent the changes in chemistry that have taken place over the last two decades.

SCE 512—**Biology for Elementary School Teachers.** Four hours.
Prerequisites: 8 hours in physical science and 8 hours in biological science.
A course in general modern biology emphasizing the molecular aspects of animate matter.

SCE 513—**Earth Sciences for Elementary School Teachers.** Four hours.
Prerequisites: 8 hours in physical science and 8 hours in biological science.
This course is designed to provide elementary teachers with a general background understanding of natural phenomena of the earth and its relationships in space. Particular emphasis is placed on those processes that are directly applicable to grades 1 through 6.

SCE 598—**Thesis. Six hours.**

SCE 791—**Research in Science Education.** One to twelve hours.

SCE 796—**Seminar.** Two hours each quarter for no more than three quarters.
Meets for two hours weekly.
Discussion of current trends and practices in science education; invited speakers; and discussions of prospecti and research of current students in science education.

SCE 797—**Independent Study and Research.** Hours arranged.
Not to be counted as credit toward degree.
Students who are not in residence but who are actively working on a dissertation and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

SCE 798—**Dissertation.**

DEPARTMENT OF SECONDARY EDUCATION (SED)

Eric M. Gunn, Chairman
Bonner Campbell Felder King Landskov Rogers

Prescribed curricula for the graduate degree and specialist certificate programs offered by the Department are as follows:

Plan I (Thesis) — a total of forty-six (46) hours to include: FED 501, FED 504, EPY 510, SED 598, twenty-four (24) hours in a subject field, and any one of the following courses: GED 506, SED 508, FED 532.

Plan II (Non-thesis) — a total of forty-eight (48) hours.
Suggested courses in education include:

FED 501—**Research: Its Introduction and Methodology.** Four hours.
FED 504—**Foundations in American Education.** Four hours.
GED 506—**Fundamentals of Guidance.** Four hours.
SED 508—**High School Curriculum.** Four hours.
EPY 510—**Advanced Educational Psychology.** Four hours.
FED 532—**Measuring Results in Education.** Four hours.

plus a **minimum** of twenty-four (24) hours in a subject field.

SPECIALIST CERTIFICATE

A total of forty-eight (48) hours **beyond** the master's degree, to include SED 698-Research Problem. Courses in the student's major will be selected to fit his needs. The following courses are among those recommended:

EPY 575	FED 716
AED 704	FED 718

plus twenty-four (24) quarter hours in any one subject field outlined in the Graduate Bulletin.

COURSE DESCRIPTIONS (SED)

G-462—**Curriculum of the Secondary School.** Two hours.

A critical examination of the present day curriculum with emphasis upon the core curriculum.

G-464—**Student Activities in Secondary Schools.** Two hours.

Consideration is given to the general nature and organization of the program popularly known as extra-curricular activities. Major emphasis is upon the various activities that constitute an activity program in a modern high school.

508—**High School Curriculum.** Four hours.

Various designs of the curriculum as they apply to general and specialized education, and a critical evaluation of content of subject matter areas in terms of the needs of youth.

SED 523—**Research and Problems in Mathematics Education.** 4 hours.
A seminar for experienced teachers who wish to plan developmental programs of instruction in light of recent investigation and research. Topics to be considered include teaching strategies, language and symbolism, programmed instruction, current research in mathematics education, and other topics of general interest.

554—**Reading in the Secondary Schools.** Four hours.

A course designed to acquaint the secondary teacher with a developmental high school reading program with emphasis on the basic skills in reading. Corrective practices and materials will also be discussed.

592—**Special Problems I, II, III.** One hour each

594—**Field Problems.** Four hours.

597—**Independent Study and Research.** Hours arranged.

Not to be counted as credit toward a degree.

Students who are not in residence but who are actively working on a thesis and consulting with the major professor or making use of the library or other University faciliites must enroll in this course.

598—**Thesis.** Six hours. Credit deferred until thesis is completed.

601—**Algebra for Secondary Teachers.** Four hours.

A consideration of problems peculiar to the teaching of algebra and a review of special algebraic principles.

605—**Professional Subject Matter in Mathematics.** Four hours.

A study of ways to enrich the teaching of high school mathematics by the introduction of elementary topics from college mathematics.

606—**Geometry for Secondary Teachers.** Four hours.

A consideration of problems peculiar to the teaching of high school geometry and a review of special geometric principles.

607—**Materials in the Teaching of Mathematics.** Four hours.

A study of materials to be used in the teaching of secondary mathematics for multi-sensory aids, mathematics clubs, evaluation, and applications.

608—**Mathematics for Junior High School Teachers.** Four hours.

Prerequisite: To be teaching junior high school mathematics or have at least a minor in college mathematics.

A consideration of problems peculiar to the teaching of mathematics in grades 7, 8, and 9, and the organization of mathematical subject matter for these grades.

609—**Advanced Professional Subject Matter in Mathematics.** Four hours.

Prerequisite: SED 605.

697—**Independent Study and Research.** Hours arranged.

Not to be counted as credit toward a degree.

Students who are not in residence but who are actively working on a research problem and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

698—**Research Problem. Four hours.** (For Specialist Certificate)

791—**Research in Secondary Education.** One to twelve hours.

Prerequisite: Approval of the major professor.

792—**Special Problems.** Four hours.

797—**Independent Study and Research.** Hours arranged.

Not to be counted as credit toward a degree.

Students who are not in residence but who are actively working on a dissertation and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

798—**Dissertation.**

SCHOOL OF FINE ARTS

Raymond Mannoni, Dean
Gomer Pound, Coordinator of Graduate Studies

The School of Fine Arts currently offers graduate programs leading to the degrees of Master of Music, Master of Music Education, and Master of Arts. The Master of Music degree may be earned either in applied music or in theory-composition. The Master of Arts degree may be earned in theatre.

The School of Fine Arts offers the Doctor of Philosophy and Doctor of Education degrees in music education.

Courses are offered by the Department of Art for those who wish to elect them as a cognate area or who wish to renew teaching certificates.

Tests and Auditions

Examinations for advisory purposes are given to all new master's students during registration week and prior to their enrollment. New master's students should contact the Coordinator of Graduate Studies for a schedule of these examinations. Auditions for applied music majors are given at the same time. Approval of the graduate faculty in music must be obtained before a student is permitted to major in an applied music field.

Ensemble Participation

All graduate music students are required to participate in at least one ensemble each quarter they are in residence.

Deficiencies

The School of Fine Arts retains the right to determine deficiencies in the preparation of any graduate student, regardless of the number of course credits accumulated. The School will recommend appropriate means for removing such deficiencies.

DEPARTMENT OF ART (ART)

Walter Lok, Chairman
Poirier

G-412—**Crafts.** Four hours.

Prerequisite: Permission of instructor.

An orientation for prospective teachers and other art majors in the craft areas dealing with such projects as jewelry, metal craft, enameling, leather, stitchery, and with similar materials and techniques.

G-492—**Art Education Project.** Two to four hours.

Prerequisite: ART 109.

A research project of considerable scope and depth in the area of specialized art teaching and supervision.

MASTER'S DEGREE PROGRAMS IN MUSIC AND MUSIC EDUCATION

Prescribed curricula for master's degree programs follow. As can be seen, they provide for some latitude and flexibility in arranging individual degree programs. Course selections must be approved by the student's advisory committee. The student's major professor will assist in every way possible, but final responsibility for following all general departmental regulations lies with the student.

For the Master of Music Degree in Applied Music.

Applied Music ..... 15 quarter hours
Recital 515 ..... 0 quarter hours
Selected work from the following ..... 23 quarter hours

Music Theory (minimum of 6 quarter hours)

Analytical Techniques 521, 522, 523 ..... (2-2-2)
Pedagogy of Theory 511, 512, 513 ..... (2-2-2)
Advanced Composition G-411, G-412, G-413 ..... (2-2-2)
Advanced Counterpoint G-421, G-422, G-423 ..... (2-2-2)
Advanced Orchestration G-405, G-406, G-407 ..... (2-2-2)

Music History and Literature (Minimum of 6 quarter hours)

Seminar in Music Literature 561, 562, 563 ..... (2-2-2)
History of Opera G-431 ..... (4)
American Music G-432 ..... (4)
20th Century Music G-433 ..... (4)
Baroque Music G-435 ..... (4)
18th Century Music G-436 ..... (4)
19th Century Music G-437 ..... (4)
Vocal Literature G-441A, G-442A, G-443A ..... (2-2-2)
Piano Literature G-441B, G-442B, G-443B ..... (2-2-2)
Organ Literature G-441C, G-442C, G-443C ..... (2-2-2)
Instrumental Literature G-441D, G-442D, G-443D ..... (2-2-2)
Choral Literature G-441E, G-442E, G-443E ..... (2-2-2)
Symphonic Literature G-441F, G-442F, G-443F ..... (2-2-2)
Chamber Music G-441H, G-442H, G-443H ..... (2-2-2)
Liturgies G-460 ..... (2)
Gregorian Chant G-461 ..... (2)
Hymnology G-462 ..... (2)

Music Electives

Special Studies 591, 592, 593 ..... (1-3 hours each)
Research Essay 516 ..... (3)
Psychology of Music 555 ..... (4)
Administration of Church Music G-463 ..... (2)
Musical Acoustics G-430 ..... (4)
Advanced Conducting G-431A or B, G-432A or B, G-433A or B ..... (2-2-2)
Music Programs for Community and Junior Colleges 516 ..... (4)

Directed courses outside the Department of Music ..... 8 quarter hours

Total ..... 46 quarter hours

For the Master of Music Degree in Theory-Composition:

Analytical Techniques 521, 522, 523 ..... 6 quarter hours
Advanced Composition G-411, G-412, G-413 ..... 6 quarter hours
Composition in a Large Form 514, or Thesis 598 ..... 6 quarter hours
Selected work from the following ..... 20 quarter hours

Music History and Literature (minimum of 6 quarter hours.)

Seminar in Music Literature 561, 562, 563 ..... (2-2-2)
History of Opera G-431 ..... (4)

American Music G-432 ..... (4)
20th Century Music G-433 ..... (4)
Baroque Music G-435 ..... (4)
18th Century Music G-436 ..... (4)
19th Century Music G-437 ..... (4)
Vocal Literature G-441A, G-442-A, G-443A ..... (2-2-2)
Piano Literature G-441B, G-442B, G-443B ..... (2-2-2)
Organ Literature G-441C, G-442C, G-443C ..... (2-2-2)
Instrumental Literature G-441D, G-442D, G-443D (2-2-2)
Choral Literature G-441E, G-442E, G-443E ..... (2-2-2)
Symphonic Literature G-441F, G442F, G-443F ..... (2-2-2)
Chamber Music G-441H, G442H, G443H ..... (2-2-2)
Liturgies G-460 ..... (2)
Gregorian Chant G-461 ..... (2)
Hymnology G-462 ..... (2)

Music Electives

Pedagogy of Theory 511, 512, 513 ..... (2-2-2)
Music Programs for Community and Junior Colleges 516 ..... (4)
Psychology of Music 555 ..... (4)
Special Studies 591, 592, 593 ..... (1-3 quarter hours each)
Applied Music ..... (2-2-2)
Musical Acoustics G-430 ..... (4)
Advanced Conducting G-431A or B, G-432A or B, G-433A or B ..... (2-2-2)

Directed courses outside the Department of Music ..... 8 quarter hours

TOTAL ..... 46 quarter hours

For the Master of Music Education Degree:

Music Education ..... 22 quarter hours

Required ..... 12 quarter hours

Seminar in Music Education 525, 526, 527 ..... (2-2-2)
*Thesis 598 ..... (6)

Selected Work from the following ..... 10 quarter hours
Applied Music ..... (1-1-1)
Special Studies 591, 592, 593 ..... (1-3 quarter hrs. each)
Psychology of Music 555 ..... (4)
Evaluation and Guidance in Music Education I, II 556, 557 ..... (2-2)
Band Literature 536 ..... (2)
Advanced Topics in Instrumental Music 510 ..... (2)
Advanced Topics in Vocal Music 512 ..... (2)
Organization and Administration of School Music Programs 514 ..... (4)
Music Programs for Community and Junior Colleges 516 ..... (4)
Curriculum Problems in Music Education G-423A ..... (2)
Organization and Administration of School Orchestras and Bands G-432B ..... (2)
Advanced Strings Methods G-425 ..... (2)
Advanced Winds Methods G-427 ..... (2)

Percussion Methods G-429 ..... (2)
Advanced Conducting G-431A or B, G-432A or B, G-433A or B ..... (2-2-2)

Music: (Minimum of 6 quarter hours in Theory and 6 in History or Literature) ..... 16 quarter hours
Pedagogy of Theory 511, 512, 513 ..... (2-2-2)
Analytical Techniques 521, 522, 523 ..... (2-2-2)
Arranging for School Bands, Choruses, or Orchestras 586, 587, 588 ..... (2-2-2)
Seminar in Music Literature 561, 562, 563 ..... (2-2-2)
Advanced Orchestration G-405, G-406, G-407 ..... (2-2-2)
Musical Acoustics G-430 ..... (4)
History of Opera G-431 ..... (4)
American Music G-432 ..... (4)
20th Century Music G-433 ..... (4)
Baroque Music G-435 ..... (4)
18th Century Music G-436 ..... (4)
19th Century Music G-437 ..... (4)

Directed Courses outside the Departments of Music and Music Education ..... 8 quarter hours

Total ..... 46 quarter hours

*Eight hours of electives in music may be taken in lieu of thesis.

DOCTORAL PROGRAMS IN MUSIC EDUCATION

The degrees of Doctor of Philosophy and Doctor of Education in music education are offered to candidates who pursue the course of study with distinction and who show ability to do research and scholarly study. General requirements for the Ph.D. and Ed.D. degrees are found in Part IV of this **Bulletin.** The School of Fine Arts further stipulates the following requirements.

ADMISSION: An applicant for admission to doctoral study in music education must possess a master's degree in music education, or its equivalent, from an approved institution. A complete record of previous education and experience, accompanied with recommendations from responsible persons who are personally acquainted with the applicant and his work are required to support all applications for admission to doctoral study in music education. A personal interview may be required by the School of Fine Arts. Each applicant must have at least three years successful teaching experience. If the degree work is concerned with college administration the applicant must have at least three years experience in a college or university or equivalent.

RESEARCH TOOLS: Candidates for the Ph.D. degree in music education must comply with the language requirements as specified for Ph.D. candidates in Part IV of this **Bulletin.** Candidates for the Ed.D. degree in music education are required to demonstrate a reading knowledge of one designated modern foreign language and proficiency in statistics.

All doctoral candidates in music education are required to take MED 514 (Organization and Administration of School Music Programs), MUS 630 (History of Style of Music), MUS 696 (Seminar in Performance Practices), and MED 625, 626 (Doctoral Seminar in Music Education). The remaining course work will be determined in light of the candidate's qualifying examination, his interests, and the counsel of his major professor and advisory

committee. In planning this program the following minimum distribution of graduate courses (including master's degree work) is required: thirty-six (36) hours in music education, sixteen (16) to eighteen (18) hours in musicology, sixteen (16) to eighteen (18) hours in music theory, twelve (12) hours in education, and thirty-six (36) hours of approved electives. Although Part IV of this **Bulletin** states that 118 hours are required for doctoral degrees, it should be clearly understood that few candidates are able to receive a degree on the basis of this minimum. The distinction implied by the degree and the traditions relating to it require comprehensive knowledge and demonstration of a high degree of proficiency in the major field and related areas of study, as well as the ability to conduct advanced research.

COURSE DESCRIPTIONS

APPLIED MUSIC AND ORGANIZATION (APM)

501-502-503—**Piano.** One to five hours each quarter.
511-512-513—**Organ.** One to five hours each quarter.
521-522-523—**Strings. (Violin or 'Cello)** One to five hours each quarter.
531-532-533—**Woodwinds.** One to five hours each quarter.
541-542-543—**Brass.** One to five hours each quarter.
551-552-553—**Percussion.** One to five hours each quarter.
561-562-563—**Voice.** One to five hours each quarter.

DEPARTMENT OF MUSIC (MUS)

David Foltz, Chairman

Andersen Benner Birmingham Donohue A. Gower Hays
Huck Imbragulio Mannoni Nowakowski Presser

COURSE DESCRIPTIONS

G-405,G-406,G-407—**Advanced Orchestration.** Two hours each.

G-411,G-412,G-413—**Advanced Composition.** Two hours each.
Writing in larger forms for various choral and instrumental combinations.

G-421,G-422,G-423—**Advanced Counterpoint.** Two hours each.
Eighteenth century canons and fugal writing. Sixteenth century writing in madrigal style.

G-430—**Musical Acoustics.** Four hours.
An investigation into the nature and perception of musical sounds designed to lead to a better understanding of problems of tone production, intonation, and allied musical aspects.

G-431—**History of Opera.** Four hours.
The history of musical theatre from Greek drama to present. Open to non-music majors with consent of instructor. Offered 1968-69 and alternate years.

G-432—**American Music.** Four hours.
A study of the development of music in North America with particular emphasis in three areas; (1) European heritage, (2) jazz, (3) composers of the twentieth century whose idioms evidence strong roots in American culture. Open to non-music majors with consent of instructor. Offered 1968-69 and in alternate years.

G-433—**20th Century Music.** Four hours.

Examination of musical trends since Debussy and Mahler. Open to non-music majors with consent of instructor. Offered 1968-69 and alternate years.

G-435—**Baroque Music.** Four hours.

The development of musical styles and forms from Monteverdi through J. S. Bach. Offered 1969-70 and alternate years.

G-436—**18th Century Music.** Four hours.

The development of classical styles and forms, with particular emphasis on **style gallant,** the Mannheim school, **Empfindsamer Stil,** and the Viennese classicists. Offered 1969-70 and alternate years.

G-437—**19th Century Music.** Four hours.

The development of musical romanticism, with emphasis on the transformation and expansion of classical forms and the appearance of new formal and stylistic concepts. Offered 1969-70 and alternate years.

G-441A, G-442A, G-443A—**Vocal Literature.** Two hours each.

G-441B, G-442B, G-443B—**Piano Literature.** Two hours each.

G-441C, G-442C, G-443C—**Organ Literature.** Two hours each.

G-441D, G-442D, G-443D—**Instrumental Literature.** Two hours each.

G-441E, G-442E, G-443E—**Choral Literature.** Two hours each.

A survey of accompanied and unaccompanied choral music from Gregorian chant to the present. Open to non-music majors with consent of instructor.

G-441F, G-442F, G-443F—**Symphonic Literature.** Two hours each.

The history and literature of the symphony orchestra from 1600 to the present. Open to non-music majors with consent of instructor.

G-441H, G-442H, G-443H—**Chamber Music.** Two hours each.

A survey of music for small instrumental ensembles. Open to non-music majors with consent of instructor.

G-460—**Liturgies.** Two hours.

Liturgy in worship: the Jewish, Eastern Orthodox, and Roman Catholic liturgies and their music; liturgies of the Reformation period; music of the Lutheran, Calvinist, and Anglican churches; music of non-liturgical churches.

G-461—**Gregorian Chant.** Two hours.

This course is designed to acquaint the student with the history and development of Gregorian chant, with literature and recordings for demonstration purposes. Practical experience in conducting Gregorian chant is offered also.

G-462—**Hymnology.** Two hours.

The history of the Christian hymn from its roots to present-day forms.

G-463—**Administration of Church Music.** Two hours.

Practical aspects of church music are presented in this course, such as: building a church library, organizing and directing various church choirs, the volunteer choir system, directing from the console, etc.

511, 512, 513—**Pedagogy of Theory.** Two hours each.

A course in the teaching of theory.

514—**Composition in a Large Form.** Six hours.

Open to students with a major in theory-composition.

515—**Recital.** 0 hours.

Required for a major in applied music. The candidate must be granted approval to present his recital by an auditioning committee made up of the applied faculty of the major area and representatives of the music graduate faculty at least five weeks prior to the recital date.

516—**Research Essay.** Three hours.

521, 522, 523—**Analytical Techniques.** Two hours each quarter.

A course in the techniques of harmonic and contrapuntal analysis.

561, 562, 563—**Seminar in Music Literature.** Two hours each.

Study of music of individual composers, or of special areas of music literature.

586—**Arranging for School Bands.** Two hours.

587—**Arranging for School Choruses.** Two hours.

588—**Arranging for School Orchestras.** Two hours.

592—**Special Studies I, II, III.** One to three hours each.

Investigation of specialized areas of interest within the broad field of music, with emphasis on individual research. A committee of not less than three graduate faculty is appointed to evaluate the results of each study.

630—**History of Style in Music.** Four hours.

Detailed analysis of selected musical works from antiquity to the 20th century. Special emphasis is placed upon the identification of style determinants. Doctoral students only.

692—**Special Studies I, II, III.** One to three hours each.

Doctoral students only.

696—**Seminar in Performance Practices.** Two hours.

A seminar in the performance of music from selected periods, with emphasis on music composed before 1800. Transcription of older music into forms suitable for performance by modern media. Doctoral students only.

DEPARTMENT OF MUSIC EDUCATION (MED)

William Gower, Chairman

Carnovale Drake Maier Neumann
Pound Zahrt

COURSE DESCRIPTIONS

G-423A—**Curriculum Problems in Music Education.** Two hours.

Intensive research into, and discussion concerning, current values and trends in music education in America.

G-423B—**Organization and Administration of School Orchestras and Bands.** Two hours.

Techniques of promoting and maintaining successful orchestras, bands, and instrumental ensembles; research by students; emphasis on problems of marching bands and pageantry.

G-425—**Advanced Strings Methods.** Two hours.

G-427—**Advanced Winds Methods.** Two hours.

A study of basic and advanced techniques in the pedagogy of all the major woodwind and brass instruments with emphasis upon tone production.

G-429—**Percussion Methods.** Two hours.

G-431A, G-432A, G-433A—**Advanced Choral Conducting.** Two hours each.

Conducting and interpreting representative works of great choral schools and composers since the sixteenth century; opportunities for formation of judgment of choral music. Church chorus and sacred music studied in Fall Quarter.

G-431B, G-432B, G-433B—**Advanced Instrumental Conducting.** Two hours. each.

G-463—**Principles of Music in Action.** Four hours. Winter and Summer.

Prerequisite: MED 362 or equivalent.

A further refinement in music skills designed specifically for the minor in fine arts for elementary teachers. A laboratory course in basic theory, keyboard, conducting, rhythmics, class instruments, and creative listening. May not be applied toward a Master of Music or Master of Music Education degree.

G-490A, G-491A, G-492A—**Piano Workshop.** 1½ hours each.

Cannot be applied toward a music degree.

G-490B, G-491B, G-492B—**Instrumental Workshop.** 1½ hours each.

Cannot be applied toward a music degree.

G-490C, G-491C, G-492C—**Choral Workshop.** 1½ hours each.

Cannot be applied toward a music degree.

G-490E, G-491E, G-492E—**Elementary Music Workshop.** 1½ hours each.

Cannot be applied toward a music degree.

510—**Advanced Topics in Instrumental Music.** Two hours.

Investigation of current trends and practical topics in instrumental music education, with an emphasis on secondary and collegiate instruction.

512—**Advanced Topics in Vocal Music.** Two hours.

Investigation of current trends and practical topics in vocal music education, with an emphasis on secondary and collegiate instruction.

514—**Organization and Administration of School Music Programs.** Four hours.

A study of the organization, supervision, and evaluation of the total school music program, including problems of finance, in-service training, consultants, and selection of personnel and equipment.

516—**Music Programs for Community and Junior Colleges.** Four hours.

A study of the evolution of music programs in junior colleges throughout the United States, with an emphasis upon influences, programs, and services of junior colleges in Mississippi.

525, 526, 527—**Seminar in Music Education.** Two hours each.

Required of all students pursuing the master's degree in music education. Open by permission to other interested students. This course reviews current philosophies of education and their application to the music curriculum. In addition, the student will engage in studies of individually chosen problems of special interest.

536—**Band Literature.** Two hours.

A study of band literature from its emergence to present. Emphasis is placed on individual research and preparation of representative literature for performance.

555—**Psychology of Music.** Four hours.

A course designed particularly for the teacher or prospective teacher of music. Review of fundamental concepts from the science of psychology. Special study in the areas of auditory perception, motivation, and personality, leading to an understanding of individual differences in musical capacities and concomitant application in teaching.

556, 557—**Evaluation and Guidance in Music Education I, II.** Two hours each.

The administration and interpretation of tests of musical talent and musical achievement. Practical application of tests results, inventories and other devices in the teaching and guidance of music students in public schools, colleges, and universities.

597—**Independent Study and Research.** Hours arranged.

Not to be counted as credit toward a degree.

Students who are not in residence but who are actively working on a thesis and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

598—**Thesis.** Six hours.

No thesis will be accepted without being accompanied by an abstract. Theses which employ questionnaires for their research will not be accepted without suitable summaries of the findings presented in readiness to be mailed to respondents.

625—**Doctoral Seminar In Music Education.** Four hours.

Orientation to doctoral study. Studies in the history and philosophy of music education.

626—**Doctoral Seminar In Music Education.** Four hours.

Primary focus on advanced research methods, techniques, and procedures appropriate to the doctoral level of music education. Individual projects to develop skill in reporting research.

627—**Teaching Music in Higher Education.** Two hours.

A seminar dealing with problems of teaching music in institutions of higher learning. Doctoral students only.

629—**Administration of College and University Music Programs.** Two hours.

Doctoral students only.

791—**Research in Music Education.** One to twelve hours.

Prerequisite: Approval of the major professor.

797—**Independent Study and Research.** Hours arranged.

Not to be counted as credit toward a degree.

Students who are not in residence but who are actively working on a dissertation and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

798—**Dissertation.**

DEPARTMENT OF THEATRE (THE)

H. L. Zillmer, Acting Chairman
Hartwig

A curriculum outline for the degree of Master of Arts in Theatre is presented below.

Theatre Literature. Twelve (12) hours from the following:

THE 506—Dramaturgy. Four hours.
THE G-421, G-422—History of American Theatre. Four hours.
THE G-425—Lyric Theatre. Four hours.
THE 510—Contemporary Trends in European Theatre. Four hours.
THE 511—Contemporary Trends in American Theatre. Four hours.

Individual Study and Research. Twelve (12) hours from the following:

THE 500—Reading in the Field. Four hours.
THE 592—**Special Studies I, II, III.** One to three hours each.
THE 598—Thesis in Theatre. Six hours.

Applied Theatre Production. Twelve (12) hours from the following:

THE G-401—History and Design of Costumes. Four hours.
THE G-412—Stage Lighting. Four hours.
THE G-418, G-420—Directing I. II. Eight hours.
THE 435—Advanced Scene Design. Eight hours.
THE 588—Directed Practicum in Theatre. Eight hours.

Electives. Twelve (12) hours.

May be fulfilled from additional courses listed above, courses in other areas of the School of Fine Arts, approved courses in areas apart from the Fine Arts, or by:

THE G-416—Playwrighting. Four hours.
THE G-430, G-431—Summer Stock. Eight hours.
THE G-480—Directing Children's Theatre. Four hours.
THE 589—Practicum in Community Theatre I, II. Six hours each.

COURSE DESCRIPTIONS

G-401—**History and Design of Costumes.** Four hours.

Prerequisite: Consent of instructor.

Study of both historical and contemporary costume designs and their methods of construction for theatrical presentations.

G-412—**Stage Lighting.** Four hours. Winter.

Prerequisite: Consent of instructor.

Theory and application of general and special lighting, color, instrumentation, and control.

G-416—**Playwrighting.** Four hours. Spring. Alternate years.

Prerequisite: Consent of instructor.

Study and research in the elements of play structuring culminating in an original one-act play.

G-418—**Directing I.** Four hours. Fall.

Prerequisite: THE 413-G-413.

Principles of stage directing.

G-420—**Directing II.** Four hours. Winter.

Prerequisite: THE 418-G-418.

Continuation of Directing I, with emphasis on scene work in conjunction with 414-G-414.

G-421, G-422—**History of The American Theatre.** Four hours each. Winter and Spring. 1968-69 and alternate years.

Prerequisite: THE 201 or consent of instructor.

The development of American theatres, techniques of production, organization, and management from 1668 to the present.

G-425—**Lyric Theatre.** Four hours.

A study of musical theatres and their literatures, together with an analysis of the uses of music in theatrical presentations.

G-430, G-431—**Summer Theatre I, II.** Four hours each.

Prerequisite: Consent of staff.

An eleven-week program covering all phases of theatre production in an operating summer stock theatre. Must be taken concurrently.

G-435—**Advanced Scene Design.** Four hours.

Prerequisite: THE 306 or consent of instructor.

The techniques of scene design as applied to non-realistic stage settings.

G-480—**Directing Children's Theatre.** Four hours.

Prerequisite: THE 376, THE 418, and consent of instructor.

The techniques of directing, organizing, and administrating a children's theatre program in all phases of application. Laboratory work will include a full-length play for public presentation.

500—**Reading in the Field.** Four hours. Fall.

Study and research in all aspects of theatre with special emphasis on individual needs.

506—**Dramaturgy.** Four hours. Fall.

Examination and evaluation of theories of the structure of drama since Aristotle.

510—**Contemporary Trends in European Theatre.** Four hours. Spring.

Study of theories and movements that are shaping the present day European theatre.

511—**Seminar: Contemporary Trends in American Theatre.** Four hours.

A study of the theories and movements which are shaping contemporary American theatre.

588—**Directed Practicum in Theatre.** Four hours.

Directed independent study and practical application in an area of theatre production of the student's choice.

589—**Practicum in Community Theatre I, II.** Six hours each. Fall and Winter.

Prerequisite: 24 hours of graduate work.

Field training in residence at an approved community theatre. Fall and Winter quarters taken consecutively.

591—**Research in Theatre.** One to twelve hours.

592—**Special Studies I, II, III.** One to three hours each, for a maximum of 9 hours.

Investigation into specialized areas of interest within the broad area of theatre, with emphasis on individual research.

597—**Independent Study and Research.** Hours arranged.

Not to be counted as credit toward a degree.

Students who are not in residence but who are actively working on a thesis and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

598—**Thesis in Theatre.** Six hours.

DIVISION OF HOME ECONOMICS

Sarah L. Weaver, Chairman

Chichester Drain Fritzsche Milner Golden McCarthy

Graduate work in the Division of Home Economics offers the opportunity to earn the Master of Science degree.

General Points

1. Graduate work in the major field of specialization must be preceded by course work sufficient to satisfy undergraduate requirements for a major or enough related work to indicate the student's ability to do graduate work in his major field. Graduate work in the minor field of specialization must be preceded by at least enough course work to satisfy the undergraduate requirements for a minor or enough related work to indicate that the student can successfully do graduate work in the minor field. Deficiencies in a student's background in his major and minor fields of specialization may be made up by auditing recommended undergraduate courses.
2. Upon the completion of the graduate program, a comprehensive oral examination covering major and minor fields will be required to fulfill the qualification for a degree.
3. Students may have the option of the thesis plan or the non-thesis plan. A four-quarter-hour course in research must be completed regardless of the choice of plan—thesis option or non-thesis option.

Plan for major and minors for Master of Science degree earned in the Division of Home Economics:

A. Major and minor areas.

1. Suggested **major** areas:
   Child Development
   Family Living
   Institution Management
   Home Economics Education

2. Suggested **minor** areas:
   Child Development
   Clothing and Textiles
   Family Living
   General Home Economics
   Home Management
   Food and Nutrition
   Equipment
   Psychology
   Sociology

3. Suggested combinations:

Major	Minor
Child Development	Family Living or Food and Nutrition
Family Living	Child Development or Food and Nutrition or Home Management
Institution Management	Food and Nutrition or Home Management or Equipment
Home Economics Education	General Home Economics

B. Thesis Plan

1. Twenty-four (24) hours in a major area inclusive of thesis.

   For the major in home economics education two courses in education are required: FED 501 and 504, and sixteen (16) hours in courses in home economics education.

2. Six hours (6) for thesis.

3. A minor of sixteen (16) hours in an area other than that of the major, excepting for home economics education which requires a minor of twenty-four (24) hours. General home economics is recommended as the minor for those majoring in home economics education.

4. FED 501—**Research: Its Introduction and Methodology.** Four hours.

5. 597—**Independent Study and Research.** Hours arranged.

   Not to be counted as credit toward a degree.

   Students who are not in residence but who are actively working on a thesis and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

C. Non-thesis Plan

1. Twenty-four (24) hours in a major area.

   Four to six hours of this work are to be a field study, a special problem, or an internship in or related to the specialized area.* This part of the program must be preceded by FED 501, or the equivalent, and sufficient course work to satisfy the student's advisory committee. For the major in home economics education, two courses in education are required: FED 501 and FED 504.

   *Example: Graduate work at Merrill Palmer as approved in 1955.

2. A minor of sixteen (16) hours in an area other than that of the major, except home economics education, which requires a minor of twenty-four (24) hours. General home economics is recommended for those majoring in home economics education.

3. FED 501—**Research: Its Introduction and Methodology.** Four hours.

4. Electives must be taken to make the total hours forty-six (46).

Home Economics Education

The master's degree program in home economics education is designed for: (1) teachers of home economics education in the public school; (2) teachers of home economics on the junior college level; and (3) those interested in supervisory positions in home economics. Those preparing for teaching home economics education may follow the thesis plan or the non-thesis plan. Those preparing for teaching home economics on the college level and for supervisory positions in home economics are advised to write a thesis.

Students who elect this major for their master's degree should have complied with the undergraduate requirements in home economics education or the equivalent.

COURSE DESCRIPTIONS

CHILD DEVELOPMENT (CD)

G-420—**Advanced Child Development.** Four hours.

This course is for students interested in further study of pre-school children and in developing techniques and accepting full responsibilities in the daily activity of the nursery school.

Special problems will be included on the graduate level.

592—**Special Problems in Child Development.** Two to six hours.

Advanced study selected from the field of child development. Directed individual study in child development and nursery education.

594—**Seminar in Child Development.** Two to six hours.

Selected topics in child development. Designed to help students to evaluate research reports.

596—**Research in Child Development.** Two to six hours.

Review, evaluation, discussion of research literature. Locating, abstracting, and reporting research studies.

597—**Independent Study and Research.** Hours arranged.

Not to be counted as credit toward a degree.

Students who are not in residence but who are actively working on a thesis and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

598—**Thesis.** Six hours. Credit deferred until thesis is completed.

CLOTHING AND TEXTILES (C&T)

G-452—**Textile Testing.** Four hours.

Two 1-hour and two 2-hour periods per week.

Prerequisite: C&T 312 or 360 or approval of Department Chairman.

Testing apparel and household textile fabrics by standard ASTM and AATCC methods; interpreting and evaluating test results; application of data to better consumer understanding and practices.

G-456—**Textile Economics.** Two hours.

Prerequisite: C&T 312 or C&T 360 or the equivalent.

A study of problems which affect the consumer in the production, distribution, and consumption of textiles and clothing. Survey of recent developments in the textile and clothing field.

560—**Apparel Designing Through Draping.** Four hours.

Two 1-hour and two 2-hour periods per week.

Prerequisite: Permission of instructor.

Creative dress design through draping principles and procedures; study of leading designers, their techniques, and places in the market.

565—**Flat Pattern Design.** Four hours.

Two 1-hour and two 2-hour periods per week.

Prerequisite: Permission of instructor.

Creative dress design through the principles and application of flat pattern techniques; emphasis on solving figure problems; study of manufacturing process of commercial patterns; setting sizing standards.

570—**Textiles: Recent Developments.** Two hours.

Prerequisite: C&T 312 or 360 or equivalent.

590—**Institute on the Bishop Method of Clothing Construction.** One and one-half hours. Basic Course.

Workshop in clothing construction in which student is taught the newest development in teaching clothing construction, the unit method introduced by Mrs. Edna Bryte Bishop.

591—**Institute on the Bishop Method Applied to Tailoring.** One and one-half hours.

592—**Special Problems in Clothing and Textiles.** Two to six hours.

596—**Research in Textiles and Clothing.** Two to six hours.

Prerequisite: Permission of instructor.

FOOD AND NUTRITION (F&N)

G-442—**Experimental Foods.** Four hours.

Prerequisite: F & N 285.

This course will include elementary research to determine factors affecting standard products and experimentation in preparation, ingredients, methods of cooking, temperature, and utensils used. Special problems will be included on the graduate level.

G-444—**The School Lunch.** Four hours.

This course will include actual experience in menu planning, large quantity food preparation for school lunch room, food buying, serving, a study of equipment and organization for school lunch rooms. Special problems will be included on the graduate level.

G-459—**Institution Food Purchasing.** Four hours.

The purchase of food for institutional use, including investigation of marketing conditions, sources, standards of quality, grades, methods of purchase, care and storage of different classes of food.

G-476—**Diet in Disease.** Four hours.

Prerequisite: F & N 335.

This course will involve study of diseases which are influenced by diet and the dietetic treatment of these diseases. Special problems will be included on the graduate level.

G-478—**Advanced Nutrition.** Four hours.

Four 1-hour periods per week.

Prerequisite: F & N 335.

Study of current literature for newer findings in the field of nutrition.

575—**Community Health and Nutrition.** Four hours.

This course is planned to give insight and understanding of the relation of the development and training of pupils enrolled in classrooms to condi-

tions and facilities of the community. Health will be discussed not only from the physical aspect of the individual, but from the mental, social, economic, and spiritual requirements necessary for wholesome development. Students will be expected to make a survey of the health facilities of their community and study methods for determining the nutritional status and food habits of pupils in a classroom Each student will prepare an original paper on a problem in this field in which he has a special interest.

577—**The Nutrition of Children.** Four hours.

This course deals with the application of the basic principles of nutrition in the growth and development of children, beginning with birth and continuing through early childhood, school age, and adolescence to maturity. Methods of studying visible and invisible growth, of recognizing hidden hunger and development will be explored; the relation of nutrition to the mental, social, and emotional development of the individual will be considered; also the factors influencing food practices in families. The course will include some guided observation of children at assigned periods.

578—**Quantity Food Preparation.** Four hours.

Prerequisite: Approval of instructor.

One lecture and six hours of laboratory per week.

Application of basic principles of cookery to preparation of food in large quantities; standardization of formulas with reference to quantity, manipulation, and cost. Use of institution food service equipment.

579—**School Lunch Supervision.** Four hours.

A study of the school lunch program, of organization and administration with experiences which will help the school lunch supervisor in supervising school lunch programs on the city, county, and national level.

580—**Institution Organization and Administration.** Four hours.

Analysis of quantity food service operations as related to methods of control, selection and training of personnel, labor laws, employer-employee relationships so as to produce a system of order into a group of related activities and provide the means for their direction and development.

592—**Special Problems in:**

a. Nutrition. Two to six hours.
b. Institution Management. Two to six hours.

594—**Seminar in Food and Nutrition.** Two to six hours.

596—**Research in Food and Nutrition.** Two to six hours.

597—**Independent Study and Research.** Hours arranged.

Not to be counted as credit toward a degree.

Students who are not in residence but who are actively working on a thesis and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

598—**Thesis.** Six hours. Credit deferred until thesis is completed.

HOME ECONOMICS EDUCATION (HEE)

500—**Supervision of Home Economics.** Four hours.

Designed for high school home economics teachers interested in the student-teacher program. The course stresses the supervisory practices and

procedures for promoting student-teacher growth and development. Supervisory problems in guidance of students for home economics education teachers will be included.

502—**Home Economics in American Education.** Four hours.

This course is a brief survey of home economics in American education. It is designed to give understanding of the trends and issues in curriculum development, instruction, guidance, supervision, administration and research in this field.

504—**Curriculum Problems in Home Economics.** Four hours.

A course for teachers which deals with problems in curriculum making. It will include the place of home economics education in the total school curriculum for that specialized area. Opportunity will be given for students to work out practical problems relating to their local schools.

510—**Home Economics in Higher Education.** Four hours.

Home economics at the college level will be studied with special reference to that of the junior college. Problems in development of the curriculum, in college instruction, in guidance of students, in administrative problems, and in evaluation of a department will be considered.

514—**Teaching Home Economics to Adults.** Four hours.

A study of the adult home economics education programs with experiences which will help toward effective participation in them whether for the gainfully employed or the full-time homemaker. Special problems will be included.

552—**Teaching Family Living on the Secondary Level.** Four hours.

A study of the theory, content, and methods of marriage and family life education at the secondary level.

Designed to meet the needs of high school teachers and administrators in this area.

592—**Special Problems in Home Economics Education.** Two to six hours.

Students will be encouraged to choose for investigation research problems which are pertinent to their situation.

594—**Seminar in Home Economics Education.** Two to six hours.

Seminar problems may be taken for two, four, or six quarter hours of credit.

596—**Research in Home Economics Education.** Two to six hours.

597—**Independent Study and Research.** Hours arranged.

Not to be counted as credit toward a degree.

Students who are not in residence but who are actively working on a thesis and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

598—**Thesis.** Six hours. Credit deferred until thesis is completed.

HOUSING AND HOME MANAGEMENT (H&HM)

540—**Home Engineering.** Four hours.

This course includes a study of the selection, placement, and storage of home appliances and their use as related to the mechanical features.

Considerable time will be spent in design characteristics of the various appliances and the media used. The adaptation of certain activities to adult programs, as well as to the junior and the senior high school, will be made.

592—**Special problems in any of the following areas:** Two to six hours.

a. Household Equipment
b. Housing
c. Home Furnishings
d. Home Management

MARRIAGE AND FAMILY LIFE (M&FL)

550—**Early Marriage Adjustments.** Four hours.

Deals with the social-psychological aspects of the pair relationships during engagement and early marriage. Emphasis will be placed on interaction and communication as the pair faces the determining of family goals, the use of resources, planning for the family, and living together.

A study will be made of college marriages.

551—**The Family in the Community.** Four hours.

Designed to help the teacher understand better the social setting in which students live and its importance in the development of family living courses to meet student needs.

554—**Parents and Children.** Four hours.

This course is offered to students who are interested in parent-child relationships. Emphasis will be given to parent-child interaction, home-school relationships and methods of working with parents in groups and individually.

592—**Special Problems in Family Living.** Two to six hours.

594—**Seminar in Family Living.** Two to six hours.

596—**Research in Family Living.** Two to six hours.

597—**Independent Study and Research.** Hours arranged.

Not to be counted as credit toward a degree.

Students who are not in residence but who are actively working on a thesis and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

598—**Thesis.** Six hours. Credit deferred until thesis is completed.

PART SIX

REGISTER OF GRADUATE DEGREES AND CERTIFICATES GRANTED

DEGREES GRANTED

May 20, 1967

RALPH S. OWINGS, Ed.D., DEAN

MASTER OF ARTS

Name	College Attended	Degree	Date
Irmgard Zeyss Anderson			
Anne Lou Barfoot	University of Southern Mississippi	B.A.	1964
Donald Vander Byrd	University of Southern Mississippi	B.S.	1964
Melvin Eugene Jones	University of Southern Mississippi	B.S.	1965
Lawrence Josef Malley	University of Southern Mississippi	B.A.	1962
William Mortimer Moote	William Carey College	B.A.	1959
Charles Wayne Smith	William Carey College	B.A.	1964

MASTER OF BUSINESS ADMINISTRATION

Elton Allen Devine	University of Southern Mississippi	B.S. in B.A.	1966
Francis Marion Emerson, Jr.	Southeastern Louisiana College	B.A.	1965
Arnold Dewaine Flowers	Mississippi State University	B.S.	1961
Cheng-Yan Fu	National Taiwan University	B.A.	1953
Barney Ray Meaders, III	University of Southern Mississippi	B.S.	1954
John Earnest Pearce	University of Southern Mississippi	B.S.	1961
Joseph Marcel Poitevin	University of Southern Mississippi	B.S.	1958
Anthony C. Rouchon, Jr.	University of Southern Mississippi	B.S.	1953
Arthur M. Shiver, Jr.	University of Colorado	B.S.	1957
Clinton Lowery Williams, Jr.	Mississippi State University	B.S.	1954
Donald Phillip Wojtal	St. Louis University	B.S.	1962

MASTER OF EDUCATION

Ramey Leroy Beavers	William Carey College	B.A.	1962
Marvin G. Beck	University of Southern Mississippi	B.S.	1956
Joan Alford Brumfield	University of Southern Mississippi	B.S.	1962
Carey Walker Clay	University of Southern Mississippi	B.S.	1961
Beverly Agnes Richardson Evans	William Carey College	B.A.	1964
Joyce Elaine Guilliams Fox	Southwest Missouri State College	B.S.	1957
Mary McInnis Freeman	Mississippi State College for Women	B.S.	1941

Glenda I. Smith Givens	Southeastern Louisiana College	B.A.	1958
William Kirk Gunter	University of Southern Mississippi	B.S.	1965
Carolyn Harris	University of Southern Mississippi	B.S.	1958
Dorothy Drew Johnson	University of Southern Mississippi	B.S.	1942
Rebecca Gail Lewis	University of Southern Mississippi	B.S.	1964
Raymond Ross Mendonsa	DePaul University	B.A.	1951
William Roy Moore, Jr.	University of Southern Mississippi	B.S.	1962
Vallie Beth Garrett Penn	University of Southern Mississippi	B.S.	1963
Emory Wade Rogers, Jr.	Mississippi College	B.S.	1963
Gloria K. Ruddick	Southeastern Louisiana College	B.A.	1961
Sandra Huddleston Sinnott	University of Southern Mississippi	B.S.	1965
Matas Smith Sparks	Mississippi State University	B.S.	1958
Irona M. Spiers	University of Southern Mississippi	B.S.	1964
Nina Faye Kendrick Stewart	University of Southern Mississippi	B.S.	1956
Paula Jeanne Swilley	Texas Wesleyan College	B.M.	1951
Wilda Pearline Switzer	University of Southern Mississippi	B.S.	1962
Sandra Jean Tillman	William Carey College	B.A.	1964
James Mac Vance	Mississippi State University	B.S.	1959
Alice Bernice White	Trevecca Nazarene College	A.B.	1945
Wesley Wayne Wiggins	Lambuth College	B.S.	1949
Rose Marie Williams	Livingston State College	B.S.	1959

MASTER OF MUSIC

Jorja Pound Turnipseed	Blue Mountain College	B.A.	1960

MASTER OF SCIENCE

Barbara Adams	University of Mississippi	B.A.	1964
Thurman Eugene Alley	Mississippi State University	B.S.	1960
John P. Bacon, Jr.	University of Southern Mississippi	B.S.	1960
James C. Bishop	University of Mississippi	B.A.	1946
Brenda Lorraine Britton	Mississippi State College for Women	B.S.	1966
Whitney Joseph Broussard	University of Omaha	B.G.E.	1964

		Degrees Granted	
Carol June Brumfield	William Carey College	B.A.	1964
Linda Ryan Buckley	Mississippi State College for Women	B.S.	1965
Richard Edwin Buckley	Mississippi College	B.A.	1954
	Baptist Theological Seminary	B.D.	1961
William Henry Campbell, Jr.	University of Southern Mississippi	B.S.	1964
Charles Joel Carter	University of Southern Mississippi	B.S.	1965
William Perry Cast	University of Tampa	B.S.	1964
Billy Lamar Cooper	McNeese State College	B.A.	1954
Barbara McEwen Dillon	University of Southern Mississippi	B.S.	1959
Robert William Dubay	University of South Florida	B.A.	1964
Patricia Byrne Emerson	Mississippi College	B.A.	1962
Douglas Burton Fancher	Birmingham Southern College	A.B.	1960
Burton Seymour Fox	University of Minnesota	B.A.	1942
Linda Shurden Fox	University of Southern Mississippi	B.A.	1964
William Albert Gilliland	University of Southern Mississippi	B.S.	1960
Dorothy Shoemake Hille	University of Southern Mississippi	B.S.	1954
Franklin Ellis Hood	Mississippi College	B.S.	1966
Wen-Bin Hsieh	Taiwan Provincial Chung Hsing University	B.A.	1958
Shun-Chin Hsu	National Cheng Chi University	B.A.	1964
Harriet Fu-Mei Luo Huang	Taiwan Normal University	B.A.	1964
Joseph Clarke Hudson	University of Southern Mississippi	B.S.	1965
Albert Joseph Jaeger	University of Mississippi	B.B.A.	1949
John R. Miller	Western Kentucky State College	A.B.	1963
Robert Joseph Miller	University of Southern Mississippi	B.S.	1964
Marvin Smith Odle	University of Southern Mississippi	B.S.	1965
Bobby Norman Posey	University of Southern Mississippi	B.S.	1966
Beth Ann Richey	William Carey College	B.A.	1965
James David Seymore	University of Southern Mississippi	B.S.	1965
John Milton Smith	University of Southern Mississippi	B.A.	1964
Wilbur Hugh Tatum	Mississippi State University	B.S.	1960
Gloria Bruemmer Taylor	University of Southern Mississippi	B.S.	1966
May Lee Wang	Taiwan Normal University	B.Ed.	1962

Dennis Russell Weddle	Drake University	B.B.A.	1963
Sara C. Welsh	William Carey College	A.B.	1932
Norma Jackson Whittington	Mississippi State College for Women	A.B.	1928
Wesley Wilkerson	University of Southern Mississippi	B.S.	1966
Mary Elizabeth Simmons Williams	Southeastern Louisiana College	B.A.	1961
Leonard J. Yelinek, Jr.	University of Southern Mississippi	B.S.	1965

SPECIALIST CERTIFICATE IN ELEMENTARY EDUCATION

Ada Mary Virginia Carroll	Southeastern Louisiana College	B.A.	1956
	University of Southern Mississippi	M.A.	1962
Matilda F. Crain	Southeastern Louisiana College	B.M.Ed.	1958
	University of Southern Mississippi	M.Ed.	1962

DOCTOR OF PHILOSOPHY

Jack P. Donovan, Master of Music, University of Nebraska, 1947.
"An Investigation of Perceptions Held by Music Teachers and Administrators of Music Education Practices and Ideal Music Programs for Selected Public Schools in North Dakota."
(Educational Administration, Professor James E. Thomas)

Nora Calhoun Graves, Master of Arts, University of Mississippi, 1938.
"The Two Culture Theory in C. P. Snow's Novels."
(English, Professor Charles Moorman)

Howard S. Rosenblatt, Master of Arts, Marshall University, 1957.
"A Study of the Personality Dimensions of Disadvantaged Youth as Reflected by the Children's Personality."
(Guidance, Professor Kenneth U. Gutsch)

Milton Lloyd Turney, Master of Science, University of Southern Mississippi, 1958.
"A Second Course in Teaching for Sunday School Teachers."
(Secondary Education, Professor Norvin L. Landskov)

DOCTOR OF EDUCATION

William Maurice Learn, Educational Specialist, Stanford University, 1960.
"The Relationship of Maintenance and Operational Costs to Design and Compactness of Elementary School Buildings."
(Elementary Education, Professor John P. Van Deusen)

William Ray Merritt, Master of Education, University of Southern Mississippi, 1964.
"A Study of the Relationship Between Grade Point Average and Certain Personality Characteristics in a Mississippi High School."
(Guidance, Professor Herman Boroughs)

Charles S. Partin, Jr., Master of Arts in Education, University of Florida, 1947.
"An Investigation of the Effects of a Modified Program of Graduate Studies in Elementary Education Upon the Participants' Reported Concept of Self and Others."
(Elementary Education, Professor John P. Van Deusen)

Catherine Dean Vaughan, Master of Education, Northeast Louisiana State College, 1963.
"An Investigation into the Effect of Three Distinctly Different Student Teaching Programs Upon Teacher Characteristics."
(Elementary Education, Professor John P. Van Deusen)

DEGREES GRANTED

August 13, 1967

RALPH S. OWINGS, Ed.D., DEAN

MASTER OF ARTS

Name	College Attended	Degree	Date
Jean Martin Clinton	Mississipi State College for Women	B.A.	1949
Arthur Edward Lackey	University of Southern Mississippi	B.A.	1966
Montecue Judson Lowry	University of Southern Mississippi	B.A.	1958
William S. Martin, Jr.	William Carey College	B.S.	1965
Billy Royce Mills	William Carey College	B.A.	1961
Patricia Lee Richardson	University of Southern Mississippi	B.A.	1966
John S. Robey	University of Southern Mississippi	B.S.	1963
Harold C. Summer	University of Southern Mississippi	B.A.	1965

MASTER OF BUSINESS ADMINISTRATION

Walter Drane Becker, Jr.	Mississippi State University	B.S.	1966
Ben Leonard Calhoun, Jr.	University of Southern Mississippi	B.S.	1962
William Howard Greenblatt	University of Southern Mississippi	B.S. in B.A.	1966
John M. Lott, Jr.	University of Southern Mississippi	B.S.	1966
Robert Marion Mitchell	University of Southern Mississippi	B.S. in B.A.	1966
Alan Morris Nichols	William Carey College	B.S.	1966
James Harold Shivers	University of Southern Mississippi	B.S.	1966

MASTER OF EDUCATION

Elizabeth Godwin Allen	University of Alabama	B.A.	1951
J. C. Allen	Southwestern Louisiana Institute	B.S.	1961
Mayford Louise Anderson	University of Southern Mississippi	B.S.	1957
George Hamilton Arendale	Delta State College	B.S.	1961
Thomas Jerry Ashcraft	University of Southern Mississippi	B.S.	1961
Samuel Howard Balius	Central Bible Institute	B.A. & Th.B.	1955
Frances Williams Bates	University of Southern Mississippi	B.S.	1962
Floyd Beeson	Mississippi College	B.A.	1958
Charles Edward Blackwell	Mississippi State University	B.S.	1960
Carlos Olen Boatwright	Southeastern Louisiana College	B.A.	1965
Virgie Mae Britt	University of Southern Mississippi	B.S.	1960
Martha Ann MacLean Browning	University of Southern Mississippi	B.S.	1965
John Wesley Brumfield	University of Southern Mississippi	B.S.	1955
Rubye McBride Burns	University of Southern Mississippi	B.S.	1954
Daniel Toliver Chatwood, Jr.	University of Chattanooga	B.S.	1961
Edward Earl Childers	Jacksonville State College	B.S.	1953
Eddie Joe Chism	Mississippi State University	B.A.	1962
Foster Raymond Clarke	Livingston State College	B.S.	1964
James Donald Clinton	University of Southern Mississippi	B.S.	1961
Lucy Rutledge Clinton	University of Southern Mississippi	B.S.	1953
William Ernest Collins	William Carey College	B.M.	1955
Janice Ruth Kervin Cook	University of Southern Mississippi	B.S.	1963
Elaine Hermoine Duncan	University of Southern Mississippi	B.S.	1964
Mary Beemon Eleuterius	University of Southern Mississippi	B.S.	1964
George Walton Ewing, Jr.	University of Southern Mississippi	B.S.	1963
Ronald Lee Fidler	Troy State Teachers College	B.S.	1956
Clyde Neulan Ginn	University of Southern Mississippi	B.S.	1964
Caroline Kenamond Grubbs	University of Southern Mississippi	B.S.	1963
Don Lee Grubbs	University of Southern Mississippi	B.S.	1964

Sally Estell Mitchell Hemphill	William Carey College	B.A.	1937
Verdean E. Cox Hoehn	Southeastern Louisiana College	B.S.	1965
Ronald Lee Holifield	University of Southern Mississippi	B.S.	1966
John William Hope	University of Southern Mississippi	B.S.	1958
Bob Tom Johnson	University of Southern Mississippi	B.S.	1966
Patsy Cleveland Johnston	University of Southern Mississippi	B.S.	1955
Allen Clyde Jones	University of Southern Mississippi	B.S.	1958
Judith Ann Jones	University of Southern Mississippi	B.S.	1966
Dalton A. Keener	University of Southern Mississippi	B.S.	1960
Lynnwood Maxie Kent	University of Southern Mississippi	B.S.	1965
Charles Estess Kirkfield, Sr.	William Carey College	B.A.	1964
Ruby Brunson Kolb	University of Southern Mississippi	B.S.	1955
Jane Elizabeth King Ladner	University of Southern Mississippi	B.S.	1967
John Earl Long	Delta State College	B.S.	1962
Dorothy Morrison Lott	University of Southern Mississippi	B.S.	1962
Marcia Nel Lumpkin	Mississippi College	B.S.	1964
William Carl Madison	Troy State College	B.S.	1957
Mary Anne McKee McMahan	University of Southern Mississippi	B.S.	1966
Anna DeLois Miller	Louisiana College	B.A.	1946
	New Orleans Baptist Theological Seminary	M.R.Ed.	1948
Lilly Waltman Myers	University of Southern Mississippi	B.S.	1963
Charles Stanton Newman	University of Southern Mississippi	B.M.Ed.	1949
Hazel Williams Patrick	University of Southern Mississippi	B.S.	1953
Ray McKinney Patterson	University of Southern Mississippi	B.S.	1967
Karen Gail Perry	University of Southern Mississippi	B.S.	1966
Charlotte Louise Robinson	Mississippi College	B.A.	1964
Jerry Dale Roseberry	University of Southern Mississippi	B.S.	1964
Willie Merle Odom Sanders	University of Southern Mississippi	B.S.	1962
Lonnie Kelvin Sanford, Jr.	University of Southern Mississippi	B.S.	1957
Sandra Lee Schrader	Mississippi State University	B.S.	1965
Mary Kathryn McMullan Sims	University of Southern Mississippi	B.S.	1947

Joseph Inman Slaton, Jr.	University of Southern Mississippi	B.S.	1962
Alice Smith	University of Southern Mississippi	B.S.	1966
Douglas Walter Smith	University of Southern Mississippi	B.S.	1966
Judith Eileen Smith	William Carey College	B.S.	1966
William Francis Stephens	The Florida State University	B.S.	1956
Francis Joel Stephenson, Sr.	Mississippi College	B.S.	1957
Jones Bagnell Stewart	University of Southern Mississippi	B.S.	1943
Wanda Olivia Strickler	University of Southern Mississippi	B.S.	1957
Henry L. Thomas	University of Southern Mississippi	B.S.	1963
Freddie M. Thomason	St. Bernard College	B.A.	1963
Ann Stewart Tuggle	Jackson College	B.S.	1957
Robert Joseph Tuggle	University of Southern Mississippi	B.S.	1962
Mildred Marie Usher, III	University of Southern Mississippi	B.S.	1963
Jerry Gay Vaughan	University of Southern Mississippi	B.S.	1961
Jean Havard Waldrip	University of Southern Mississippi	BS.	1963
Janice Corban Wallace	University of Southern Mississippi	B.S.	1963
Jeanette Hempstead Ware	University of Southern Mississippi	B.S.	1961
Fred Warren Waters	University of Southern Mississippi	B.S.	1951
Frank Russell Willis	Rollins College	B.A.	1959
David Devoy Wood	University of Southern Mississippi	B.S.	1964

MASTER OF MUSIC

Brenda Nell Phillips	Huntingdon College	B.M.	1966
James Stanley Sclater	University of Southern Mississippi	B.M.	1966

MASTER OF MUSIC EDUCATION

Joe Rayford Daniel	University of Southern Mississippi	B.M.Ed.	1962
Harold Batteaste Watkins	William Carey College	B.M.	1962

MASTER OF SCIENCE

Patricia Sue Easter Ashburn	Hardin-Simmons University	B.S.	1953
Jackie Norwood Ashworth	University of Alabama	B.S.	1963

Nell Elizabeth LeCroy Beasley	Alabama College	B.S.	1948
Douglas Quintus Bobo	University of Southern Mississippi	B.A.	1963
Colen Jesse Boutwell, Jr.	University of Southern Mississippi	B.S.	1965
Henry Edward Branch, Jr.	Georgia Institute of Technology	B.C.E.	1956
Mildred Mae Estes Breaux	Eastern Kentucky State Teachers College	B.S.	1940
Billy Carl Carmichael	University of Southern Mississippi	B.S.	1956
Ida Carolyn Carpenter	University of Southern Mississippi	B.S.	1964
James Lee Clayton	University of Southern Mississippi	B.A.	1965
John J. Cooley, Jr.	University of Southern Mississippi	B.S.	1959
Billye McCarver Currie	University of Southern Mississippi	B.S.	1957
Judith Everitt Davis	University of Southern Mississippi	B.S.	1966
Harriet Etter Dorland	University of South Carolina	B.S.	1965
Judy Jeanette Dowdle	University of Southern Mississippi	B.S.	1966
Robbie Blackburn Dukes	Mississippi State College for Women	B.S.	1940
Joseph Albert Ernst	Tulane University	B.E.	1951
Joan Mary Gorski Falsone	Florida State University	B.S.	1961
Jack Gordon Ferrell, Jr.	University of Southwestern Louisiana	B.A.	1966
William Frederick Foreman, Jr.	The University of Georgia	A.B.J.	1951
Olean M. Fortenberry	University of Southern Mississippi	B.S.	1964
James Alfred Garrett	Hendrix College	B.A.	1962
Raymond Bourda Gonzalez	Southeastern Louisiana College	B.A.	1966
Thomas Lewis Goza, Jr.	University of Southern Mississippi	B.S.	1966
Mary Estelle Peagler Hawley	University of Southern Mississippi	B.S.	1952
Edward Francis Heider	Tulane University	B.E.	1960
Bonnie Lee Hensley	Mississippi College	B.S.	1961
Virginia Carole Hogue	University of Southern Mississippi	B.S.	1963
Lloyd Holyene King	University of Southern Mississippi	B.S.	1965
Joseph David Kinkade	University of Southern Mississippi	B.S.	1966
Michael Allen Knippers	William Carey College	B.A.	1962
Charles Wayne Landry	University of Southwestern Louisiana	B.S. in B.A.	1967
Kyoung-Hee Yoon Lee	Korea University	B.L.	1963

Betty Peavy Malone	William Carey College	B.A.	1959
LeQuita Jerelene Martin	University of Southern Mississippi	B.S.	1954
Keith N. McDaniel	Belhaven College	B.A.	1946
Jimmy D. McDill	William Carey College	B.S.	1966
Katherine Loftin McNair	Mississippi State University	B.S.	1947
Billy Wayne Miller	University of Southern Mississippi	B.S.	1963
James Rogers Miller	University of Southern Mississippi	B.S.	1967
Carlton D. Moody	University of Southern Mississippi	B.S.	1962
Robert Carter Murff	Mississippi College	B.S.	1962
Denson Cromwell Napier	University of Southern Mississippi	B.S.	1952
Velma Stennett Napier	Livingston State Teachers College	B.S.	1953
Eberline Beatty Nugent	Northwestern State College of Louisiana	B.A.	1953
Annie Ray Owens	University of Southern Mississippi	B.S.	1966
Cecil Henderson Parmer	University of Southern Mississippi	B.S.	1961
Marilyn Ann Petrie	Mississippi College	B.S.	1962
Vada H. Phillips	University of Southern Mississippi	B.S.	1964
Cornelia Anne Pittman	University of Southern Mississippi	B.S.	1966
Susan Howard Primeaux	University of Southern Mississippi	B.S.	1966
Terrell Franklin Rayburn	University of Southern Mississippi	B.S.	1960
Frederick Gillette Rendfrey	Millsaps College	B.S.	1964
Cicely Marie Reynolds	University of Southern Mississippi	B.S.	1966
Daphne Ann Richardson	Millsaps College	B.S.	1957
Bobby Edward Ricketts	Southeastern Louisiana College	B.A.	1964
Paul Shafer	University of Southern Mississippi	B.S.	1958
A. June Scully Sherman	Michigan State College	B.A.	1961
Faye Catherine Gibson Sipes	Union University	B.S.	1938
Donis Luter Smith	University of Southern Mississippi	B.S.	1963
Mildred Parker Switzer	University of Southern Mississippi	B.S.	1965
Donald S. Tannehill	University of Southern Mississippi	B.A.	1965
Beatrice Taylor	Livingston State College	B.S.	1963

Linda Sue Thomas	Mississippi State College for Women	B.S.	1966
Eric L. Thurston, Jr.	University of Southern Mississippi	B.A.	1966
Joseph Alvin Tolar	University of Southern Mississippi	B.S.	1959
Robert Wayne Usey	University of Southern Mississippi	B.S.	1966
John Wright Walker	University of Southern Mississippi	B.S.	1965
Louise G. Walker	Tennessee Temple College	B.A.	1950
Tsyey-ing Wang	Taiwan Normal University	B.S.	1964
Edward Forte Ward	William Carey College	B.A.	1960
Patsy Jean Richardson Welsh	University of Southern Mississippi	B.S.	1966
Clara Jean Wilson Williams	University of Southern Mississippi	B.S.	1964
Paul Walker Woodford	Union University	B.A.	1962
	New Orleans Baptist Theological Seminary	B.D.	1965

SPECIALIST CERTIFICATE IN ELEMENTARY EDUCATION

Mary Ann Carmichael	University of Southern Mississippi	B.S.	1965
	University of Southern Mississippi	M.Ed.	1966

DOCTOR OF PHILOSOPHY

Arnold Grayum Ashburn, Doctor of Theology, Southwestern Baptist Theological Seminary, 1961.
"An Analytical and Comparative Study of Course Offering Efficiency in Selected Texas Baptist Colleges and Universities, 1961-65."
(Educational Administration, Professor James H. Mailey)

Larry B. Christensen, Master of Arts, University of Southern Mississippi, 1966.
"A Critical Evaluation of the Methodology Used in the Computation of Person Perception Accuracy."
(Psychology, Professor Thomas M. Stritch)

Nettie Etoile DuBard, Master of Arts, George Peabody College, 1950.
"An Analysis of the Association Method for Teaching Aphasic Children in Relation to Information Theory and Motor Theory of Speech Perception."
(Speech and Hearing Sciences, Professor Robert W. Peters)

John Loy Fluitt, Master of Arts, Louisiana State University, 1960.
"An Investigation into the Relative Values of Wall Maps and Desk Atlases in the Teaching of Geography at the College Level."
(Secondary Education, Professor Norvin L. Landskov)

Leroy Graves, Master of Education, Louisiana State University, 1956.
A Survey of the Reading Instructional Program in the Intermediate Grades of Representative South Mississippi Public, Rural, White Schools."
(Elementary Education, Professor Leo R. Miller)

DOCTOR OF EDUCATION

Herbert L. Badger, Master of Education, University of Southern Mississippi, 1963.
"Evaluating Student Personnel Services."
(Guidance, Professor Herman Boroughs)

Bennie George Barron, Master of Education, Louisiana State University, 1961.
"An Investigation of the Effect of Videotape and Micro-Teaching Technique on 'Openness' in Students Enrolled in an Elementary Language Arts Methods Course."
(Elementary Education, Professor John P. Van Deusen)

Stanley Harvey Brumfield, Master of Science, University of Southern Mississippi, 1965.
"An Approach to the Student Withdrawal Problem Through the Use of the Structured Open-Ended Questionnaire and the Focused Depth Interview."
(Guidance, Professor Kenneth U. Gutsch)

Waitus Rankin Burris, Master of Arts, University of Mississippi, 1957.
"An Evaluation of the Mississippi Cooperative Special Education-Vocational Rehabilitation Program in Training Mentally Retarded Youths."
(Special Education, Professor Ray S. Musgrave)

Walter Leon Chatham, Master of Education, Mississippi State University, 1958.
"The Reading Grade Placement of the John Newberry Prize Books from 1945 through 1965."
(Elementary Education, Professor Leo R. Miller)

Russell Joy Crider, Master of Education, Mississippi College, 1963.
"Identification of Factors Which Influence the Passage or Failure of School Bond Issues in Selected Counties of Mississippi."
(Educational Administration, Professor James H. Mailey)

Sara Louise Hagenson, Master of Arts, Northwestern University, 1941.
"The Relation of First Grade Readiness and Achievement Scores Based on Sex, Race, and Age."
(Elementary Education, Professor Leo R. Miller)

George Alexander Harris, Master of Music, University of Arkansas, 1952.
"Interpersonal Sensitivity in the Counselor-Client Relationship."
(Guidance, Professor Kenneth U. Gutsch)

James William Larson, Jr., Master of Science, University of Southern Mississippi, 1965.
"The Effects of Training with Concentric and Eccentric Muscular Contractions on Various Physical Parameters."
(Health, Physical Education, and Recreation, Professor Robert F. McDavid)

John Waldo Lorton, Master of Education, University of Florida, 1952.
"A Study of Change in Behavioral Characteristics of Selected Teachers Within Two National Teacher Corps Preservice Preparatory Programs."
(Elementary Education, Professor John P. Van Deusen)

Melba Sweatt Partin, Master of Education, University of Florida, 1952.
"An Investigation of the Effectiveness of the AAAS Process Method Upon the Achievement and Interest in Science for Selected Fourth Grade Students."
(Elementary Education, Professor John P. Van Deusen)

David LeBarron Payne, Master of Science, Mississippi State University, 1952.
"The Superintendent's Perception of Selected Library Practices in the Public Schools of the State of Mississippi."
(Educational Administration, Professor James H. Mailey)

Rodgers Gene Perkins, Master of Arts, University of Southern Mississippi, 1954.
"The Relationship of Air Expulsion Pressure to Selected Physical Parameters."
(Health, Physical Education, and Recreation, Professor Robert F. McDavid)

Allen Pryor, Master of Science, Mississippi State University, 1950.
"The Utilization of College Training of Teachers in the Various Subject Fields as a Staffing Practice of Public Secondary Schools in Mississippi."
(Educational Administration, Professor James E. Thomas)

Kenneth Brooks Slaughter, Master of Arts, University of Southern Mississippi, 1957.
"A Study of Male Dropouts from Selected Public Secondary Schools of Mississippi."
(Educational Administration, Professor James H. Mailey)

INDEX

A

Abstract 49
Academic Regulations 42
Accreditation ..... Inside Front Cover
Accounting 113
Administrative Officers 11
Admission to Candidacy 35, 49
Admission Requirements 33
Advanced Graduate Study 35
Advisory Committee 46, 47
Application Procedures 33
Application for Degree 46
Applied Music 174, 177
Art 173
Arts and Sciences, College of 51
Assistant Professors, Graduate Faculty 19
Associate Professors, Graduate Faculty 17
Assistant Professors, Associate Graduate Faculty 22
Associate Professors, Associate Graduate Faculty 22
Astronomy 92
Audiology 108
Audit Fees 40

B

Biology 51
Board of Trustees 10
Botany 51
Business Administration, School of 111
Business Education 122

C

Calendar 5
Candidacy for Degree 33, 35, 49
Change of Schedule 40
Chemistry 62
Child Development 187
Clothing and Textiles 187
College of Arts and Sciences 51
College Counseling 145
Combined Sciences 51
Communication 66
Community Counseling 146
Comprehensive Examination 46, 49
Computer Science 69
Conditional Graduate Student 34
Conferences, etc. 39
Copyright 49
Counseling
- College 145
- Community 146
- School 144

Course Numbers 42, 46
Credit, Hours 44
Credit, Transfer 44, 46

D

Degrees 31
Director of Admissions 33
Dissertations 49
Division of Home Economics 185
Doctoral Degrees,
- General Requirements 35, 43, 47
- Granted 196, 203

E

Earth Science 79
Economics 112, 114
Education and Psychology, School of 120
Educational Administration, Supervision, and Curriculum, Dept. of 126
Educational Foundations 133
Educational Psychology 163
Elementary Education 135
English and Literature 71
English Proficiency Examination 35, 45
Examinations 40, 46, 48, 49
Expenses 36
Extension Credit 46

F

Faculty, Graduate
- Professors 13
- Assistant Professors 19
- Associate Professors 17

Faculty, Associate Graduate
- Professors 22
- Assistant Professors 22
- Associate Professors 22

Faculty, Limitations on 36, 46, 47
Fees 36
Fellows, Graduate 26
Finance, Dept. of 117
Financial Help for Graduate Students 40
Fine Arts, School of 173
Food and Nutrition 188
Foreign Languages 74
Foreign Language Requirements 45, 48
Foreign Students 40
French 74
Full-Time Student 36, 39, 42

G

Geography 76
Geology 79
German 75
Grade Point Average 33
Grading System 42
Graduate Council 12, 30
Graduate Council, Officers 12, 30
Graduate Council, Members 12, 30
Graduate Faculty 13
Graduate Fellows 26
Graduate Degrees Granted 31, 193

INDEX

Graduate Record Examination (see Calendar also) 33, 34, 44, 49
Graduate School 29
Graduation Exercises (see Calendar)
Graduation Fees 40
Guest Graduate Student 34
Guidance 144
Gulf Coast Research Laboratory 61

H

Health 150
Health, Physical Education, and Recreation 149
History 81
Home Economics, Division of 185
Home Economics Education 186, 189
Housing and Home Management 190

I

Incidental Fee 36, 39
Industrial Arts 154

J

Journalism 66, 68

L

Language Disorders 109
Language Requirements 45, 48
Library Science 155
Limitations on Faculty 36, 46, 47
Load, Credit 45

M

Management 118
Marine Biology 51
Marketing 119
Marriage and Family Life 191
Master's Degrees, General Requirements 35, 44
Mathematics 86
Medical Examination 33
Membership ..... Inside Front Cover
Memorandum of Credits 40
Microbiology 51
Miller Analogies Test (see Calendar also) 48, 49
Minor 46
Music, Applied 174, 177
Music, Dept. of 177
Music, Fees 39
Music Education 175, 179

N

National Teacher Examination ..... (see Calendar)
Non-Degree Graduate Student 34
Non-Resident Fee 39
Non-Resident Status 37

O

Oral Examination 46, 49

P

Part-Time Student 39, 45
Philosophy 99
Physical Education 151
Physics and Astronomy 92
Political Science 94
Professors, Graduate Faculty 13
Professors, Associate Graduate Faculty 22
Prospectus 49
Psychology 157
Psychology, Educational 163
Public Address 66, 67

Q

Qualifying Entrance Examination 48

R

Radio and Television 66, 68
Reading 141
Recreation 152
Recommendations 33
Refund Policy 38
Register of Graduates 193
Registration ..... (see Calendar)
Registration, Late 40
Regular Graduate Student 34
Religion 99, 101
Residence Hours 43
Residence Requirement 43
Room and Board 37, 39

S

School Counseling 144
Science Education 102, 167
Secondary Education 170
Social Sciences 51, 83, 84
Sociology 105
SOUTHERNER 37, 39
Spanish 76
Special Education 165
Special Fees 39
Specialist Program 31, 43, 121
Speech Pathology 110
Speech and Hearing Sciences 107
Statistics 69
Statistics Requirement 48

T

Tables of Expenses 39
Testing Dates 44
Theory-Composition 174
Theatre 182
Thesis Requirements 44
Time Limitations 43, 46
Transcript of Credits 33
Transfer of Credits 44

U

Undergraduate Senior 34
University Union 37

V

Veteran's Administration 37

Z

Zoology 51

UNIVERSITY
OF SOUTHERN
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